

# Clinical Chemistry

Laboratory products for your Clinical Chemistry and Immunoassay needs.

# Laboratory products for your Clinical Chemistry and Immunoassay needs.

From general chemistry testing to toxicology and cardiac monitoring, the products featured in our Cardinal Health Clinical Chemistry catalog accommodate the requirements of today's laboratories.

Comprehensive Clinical Chemistry tests represent only a portion of the complete Cardinal Health laboratory products portfolio. Our offering is designed for all disciplines, from histology to microbiology. And navigating the thousands of supplies from hundreds of leading manufacturers is easy with the help of our knowledgeable sales professionals.

**To hear more about how we can support your lab, contact your Cardinal Health sales representative or call 800.964.5227.**



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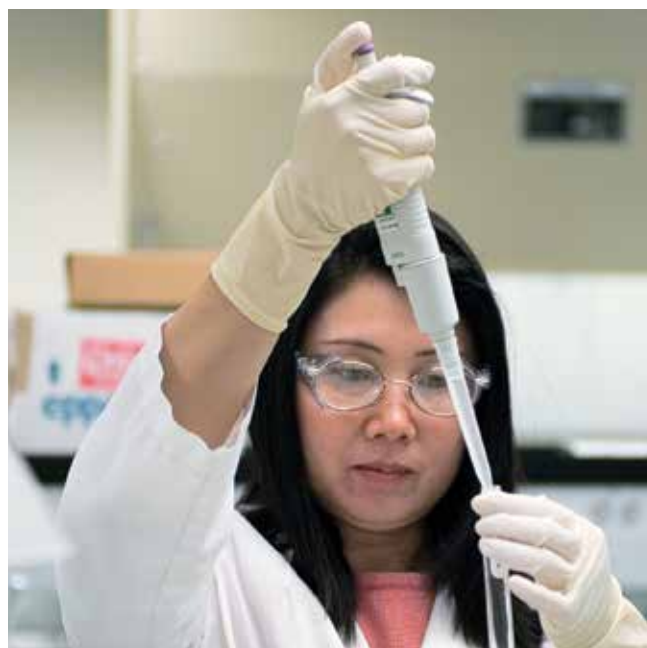
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# Analizers and Supplies

## Chemistry



### VITROS® 350 Chemistry System

ORTHO CLINICAL DIAGNOSTICS - A compact chemistry system designed to be efficient, dependable and easy to use as a primary, STAT or backup system. Capable of running more than 40 onboard assays allowing you to generate up to 300 results per hour. The VITROS® 350 System comes complete with enhanced throughput, a broad accessible menu and ergonomic design.

Cat. No.	Mfr. No.	Description	Qty.
SP6802153	6802153	VITROS® 350 system	1/ea



### VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - This high-capacity system uses "integration by design" to provide greater efficiency that improves labor effectiveness and cuts costs. Increases capacity with 150 reagent positions that allow over 100 assays to be on-board at once. The VITROS® 5600 System provides greater efficiency, lower maintenance and minimal calibration by integrating MicroSlide, MicroTip, MicroWell, Intellcheck and MicroSensor technologies.

Cat. No.	Mfr. No.	Description	Qty.
6802413	6802413	VITROS® 5600 system	1/ea



### VITROS® 4600 Chemistry System

ORTHO CLINICAL DIAGNOSTICS - The VITROS® 4600 Chemistry System is Ortho Clinical Diagnostics' (OCD) most recent addition to the VITROS® x600 Series of Systems. It offers standardized, high-quality test results using common technologies across OCD's continuum of integrated and standalone systems. Beginning with dry slide technology, the VITROS® 4600 System leverages OCD's core technologies that maximize patient result quality and promote ease of use and productivity.

Cat. No.	Mfr. No.	Description	Qty.
SP6802445	6802445	VITROS® 4600 system	1/ea

### Accessories for VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® accessories used on the VITROS® ECiQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6803911	6803911	5600/3600/AT seismic anchor kit (5600 or 3600)	1/ea
SP6800083	6800083	Desiccant-for storage box	6/bx
SP1329135	1329135	Liquid waste bottle and cap	1/ea
SP1093517A	1093517	Micro-collection container adapter (ECiQ only)	10/bx
SP6804199	6804199	MicroImmunoassay AT metering cover (5600 or 3600)	1/ea
6803935	6803935	Powerware (9135/6kVA) UPS (5600 or 3600)	1/ea
SP8231722	8231722	Reagent storage box	1/bx
SP1877158	1877158	System cleaning solution - 1 L	2/bx
SP8111957	8111957	Universal sample tray	1/ea
SP6802891	6802891	VITROS® 3600 heat rejection plenum (3600 only)	1/ea



### Accessories for VITROS® 350, 5, 1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products used on the VITROS® 350, 5, 1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.



Cat. No.	Mfr. No.	Description	Qty.
SP6803962	680 3962	5,1 FS/5600/4600/3600 removal kit	1/ea
SP6803911	680 3911	5600/3600/AT seismic anchor kit - 5600	1/ea
SP6802095	680 2095	FS adapter for micro sample cups - 5,1 FS/4600/5600	1,200/bx
SP6802219	680 2219	FS MicroCollection tube adapter - 5,1 FS/4600/5600	10/bx
SP6802120	680 2120	FS reagent tray - 5,1 FS/4600/5600	1/ea
SP6801927	680 1927	Heat rejection plenum - 5,1 FS/4600	1/ea
SP6801883S	680 1883	Lexmark 632 (high volume printer) - 5,1 FS/4600/5600	1/ea
SP6804199	680 4199	Micro immunoassay AT metering cover - 5600	1/ea
SP6804200	680 4200	MicroSlide AT metering cover - 5600	1/ea
SP1338953	133 8953	Micro tube adapter - 350	1/ea
SP6802069S	680 2069	Powerware (9125/3kVA) UPS - 5,1 FS/4600	1/ea
6803935	680 3935	Powerware (9135/6kVA) UPS - 5600	1/ea
SP6802799	680 2799	RC cartridge recycling kit	1/ea
SP1412204	141 2204	Sample cup adapter - 350	4/bx
SP1627439	162 7439	Sample tray - 350	4/bx
SP1561976	156 1976	Tip rack - 350	4/bx
SP1158294	115 8294	Tube height adapter - 350	8/bx
SP8111957	811 1957	Universal sample tray - 5,1 FS/4600/5600	1/ea
SP6802890	680 2890	VITROS® 5600 heat rejection plenum - 5600	1/ea

### Calibrators for VITROS® 350, 5, 1 FS, 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products calibrator kits are used to calibrate the VITROS® 350/5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP1882208	188 2208	Calibrator kit 1	4/bx
SP1662659	166 2659	Calibrator kit 2	4/bx
SP1290709	129 0709	Calibrator kit 3	4/bx
SP1204668	120 4668	Calibrator kit 4	4/bx
SP1149764	114 9764	Calibrator kit 5	4/bx
SP1204247	120 4247	Calibrator kit 6	4/bx
SP1320498	132 0498	Calibrator kit 7	4/bx
SP8578163	857 8163	Calibrator kit 8	4/bx
SP8568040	856 8040	Calibrator kit 9	4/bx
SP6800189	680 0189	Calibrator kit 10	4/bx
SP6801896	680 1896	Calibrator kit 25	4/bx

### Calibrators for VITROS® 5, 1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products calibrator kits are used to calibrate the VITROS® 5, 1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6801696	680 1696	Calibrator kit 11	6 bt/bx
SP6801697	680 1697	Calibrator kit 12	6 bt/bx
SP6801698	680 1698	Calibrator kit 13	6 bt/bx
SP6801699	680 1699	Calibrator kit 14	6 bt/bx
SP6801700	680 1700	Calibrator kit 16	5 bt/bx
SP6801701	680 1701	Calibrator kit 17	5 sets/5 bt
SP6801703	680 1703	Calibrator kit 19	5 sets/5 bt
SP6801704	680 1704	Calibrator kit 20	5 bt/bx
SP6801705	680 1705	Calibrator kit 21	5 bt/bx
SP6801706	680 1706	Calibrator kit 22	5 bt/bx
SP6801707	680 1707	Calibrator kit 23	5 bt/bx
SP6801708	680 1708	Calibrator kit 24	6 bt/bx
SP6802304	680 2304	Calibrator kit 26	1 bt/bx
SP6802342	680 2342	Calibrator kit 27	3 sets/2 bt
SP6802323	680 2323	Calibrator kit 28	5 bt/bx
SP6802344	680 2344	Calibrator kit 29	2 sets/2 bt
SP6802562	680 2562	Calibrator kit 30	1 bt/bx
SP6802310	680 2310	Calibrator kit 99	5 bt/bx
SP6801873	680 1873	FS calibrator 1	12 bt/bx
SP6801874	680 1874	FS reconstitution diluent	12 bt/bx

# Analyzers and Supplies

## Chemistry

### Calibrators for VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® immunodiagnostic products calibrators are used to calibrate VITROS® ECIQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6800863	6800863	AFP	1 set/pk
SP6801462	6801462	Anti-HAV Total	1 vial/pk
SP1372101	1372101	Anti-HAV IgM	1 vial/pk
SP6801426	6801426	Anti-HBc IgM	1 vial/pk
SP6801429	6801429	Anti-HBc	1 vial/pk
SP6801817	6801817	Anti-HBe (ECIQ Only)	3 vials/pk
SP6801926	6801926	Anti-HBs	1 set/pk
SP6801326	6801326	Anti-HCV	1 set/pk
SP6801862	6801862	Anti-HIV 1+2	1 vial/pk
SP1540525	1540525	B12	1 set/pk
SP6800034	6800034	CA 125 II	1 set/pk
SP6800033	6800033	CA 15-3	1 set/pk
SP6800035	6800035	CA 19-9	1 set/pk
SP1062306	1062306	CEA	1 set/pk
SP1286293	1286293	CK-MB	3 sets/pk
SP1681543	1681543	Cortisol	3 sets/pk
SP1318930	1318930	Estradiol	1 set/pk
SP1158864	1158864	Ferritin	3 sets/pk
SP1311075	1311075	Folate	1 set/pk
SP1112820	1112820	Free T3	3 sets/pk
SP1728872	1728872	Free T4	3 sets/pk
SP1901263	1901263	FSH	1 set/pk
SP6801820	6801820	HBeAg (ECIQ Only)	3 vials/pk
SP6801323	6801323	HBsAg	1 vial/bx
SP6802893	6802893	Intact PTH	3 sets/pk
SP1090133	1090133	LH	1 set/pk
SP6801043	6801043	Myoglobin	3 sets/pk
SP6802157	6802157	NT-proBNP	1 set/pk
SP6800031	6800031	NTx	1 set/pk
SP8254898	8254898	Progesterone	3 sets/pk
SP1113596	1113596	Prolactin	3 sets/pk
SP1933027	1933027	PSA	1 set/pk
SP8209074	8209074	Rubella IgG	1 set/pk
SP1209733	1209733	T3 Uptake	3 sets/pk
SP1306026	1306026	Testosterone	1 set/pk
SP6802221	6802221	Total β-hCG II	3 sets/pk
SP1614965	1614965	Total T3	1 set/pk
SP1393396	1393396	Total T4	1 set/pk
SP6802302	6802302	Troponin I ES	1 set/pk
SP1487289	1487289	TSH	1 set/pk

### Controls for VITROS® 350, 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products performance verifiers are used to monitor performance on the VITROS® 350/5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP8936049	893 6049	CRP performance verifier I	6 bt/bx
SP8597452	859 7452	CRP performance verifier II	6 bt/bx
SP8721508	872 1508	Isoenzyme performance verifier I	6 bt/bx
SP8748220	874 8220	Isoenzyme performance verifier II	6 bt/bx
SP8466492	846 6492	Liquid performance verifier I	6 bt/bx
SP1384007	138 4007	Liquid performance verifier II	6 bt/bx
SP8067324	806 7324	Performance verifier I	12 bt/bx
SP8231474	823 1474	Performance verifier II	12 bt/bx
SP8962540	896 2540	TDM performance verifier I	6 bt/bx
SP1792357	179 2357	TDM performance verifier II	6 bt/bx
SP8182172	818 2172	TDM performance verifier III	6 bt/bx
SP6800190	680 0190	UPRO performance verifier I	6 bt/bx
SP6800191	680 0191	UPRO performance verifier II	6 bt/bx

### Controls for VITROS® 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products performance verifiers are used to monitor performance on the VITROS® 5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6801750	680 1750	%A1c performance verifier I	3 bt/bx
SP6801751	680 1751	%A1c performance verifier II	3 bt/bx
SP6802311	680 2311	AAT/HPT performance verifier I	6 bt/bx
SP6802312	680 2312	AAT/HPT performance verifier II	6 bt/bx
SP6802313	680 2313	AAT/HPT performance verifier III	6 bt/bx
SP6801769	680 1769	ApoA1 performance verifier I	6 bt/bx
SP6801770	680 1770	ApoB performance verifier I	6 bt/bx
SP6802411	680 2411	ASO/RF performance verifier I	6 bt/bx
SP6802412	680 2412	ASO/RF performance verifier II	6 bt/bx
SP6802327	680 2327	DAT performance verifier I	6 bt/bx
SP6802328	680 2328	DAT performance verifier II	6 bt/bx
SP6802329	680 2329	DAT performance verifier III	6 bt/bx
SP6802330	680 2330	DAT performance verifier IV	6 bt/bx
SP6802331	680 2331	DAT performance verifier V	6 bt/bx
SP6802348	680 2348	dTIBC performance verifier I	6 bt/bx
SP6802349	680 2349	dTIBC performance verifier II	6 bt/bx
SP6801742	680 1742	hsCRP performance verifier I	6 bt/bx
SP6801888	680 1888	hsCRP performance verifier II	6 bt/bx
SP6802049	680 2049	hsCRP performance verifier III	6 bt/bx
SP6801746	680 1746	mALB performance verifier I	6 bt/bx
SP6801747	680 1747	mALB performance verifier II	6 bt/bx
SP6801771	680 1771	PALB performance verifier I	6 bt/bx
SP6801772	680 1772	PALB performance verifier II	6 bt/bx
SP6801744	680 1744	Protein performance verifier I	6 bt/bx
SP6801745	680 1745	Protein performance verifier II	6 bt/bx
SP6801768	680 1768	Protein performance verifier III	6 bt/bx

### Controls for VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - For use in monitoring the performance of the VITROS® ECiQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System when used for the measurement of the analytes listed in the instructions for use.

Cat. No.	Mfr. No.	Description	Qty.
SP1619360	1619360	Anemia	3 sets/bx
SP6801463	6801463	Anti-HAV Total	3 sets/bx
SP6800835	6800835	Anti-HAV IgM	3 sets/bx
SP6801427	6801427	Anti-HBc IgM	3 sets/bx
SP6801430	6801430	Anti-HBc	3 sets/bx
SP6802093	6802093	Anti-HBs	3 sets/bx
SP6801421	6801421	Anti-HCV	3 sets/bx
SP6801863	6801863	Anti-HIV 1+2	3 sets/bx
SP91474	91474	Cliniqa Liq QC cardiac mkr.	2 sets/bx
SP1315654	1315654	Free Thyroid	3 sets/bx
SP10820	10820	Fujirebio tumor marker	3 sets/bx
SP6801390	6801390	HBsAg	3 sets/bx
SP1420025	1420025	Metabolism	3 sets/bx
SP6800336	6800336	NTx	3 sets/bx
SP1009406	1009406	RE	3 sets/bx
SP6800660	6800660	Testosterone	3 sets/bx
SP1410646	1410646	Total thyroid	3 sets/bx

### Disposable for VITROS® 350, 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products used on the VITROS® 350/5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP1331560	133 1560	Air filter - 350	2/bx
SP1250232	125 0232	Desiccant pack - 350/5,1 FS/4600	2 sets/bx
SP1247873	124 7873	Humidity control pack - 350	2 sets/bx
SP6801892	680 1892	FS humidification packs - 5,1 FS/4600/5600	6/bx
SP6801967	680 1967	FS air filter - 5,1 FS/4600/5600	4/bx
SP1474030	147 4030	Micro tips - 350	250/bx
SP6801715	680 1715	VITROS® VersaTips - 350/5,1 FS/4600	1,000/bx
SP6801423	680 1423	FS MicroTips - 5,1 FS/4600/5600	4,096/bx
SP6801422	680 1422	FS cuvettes - 5,1 FS/4600/5600	6,000/bx
SP1451392	145 1392	VITROS® pierceable caps - 350/5,1 FS/4600/5600	1,000/bx
SP1213115	121 3115	Micro sample cup - 350/5,1 FS/4600/5600	4,000/bx
SP1631779	163 1779	Mixing cup array - 350	48/bx
SP1250273	125 0273	Disposal box liner (tip/cup array) - 350	100/bx
SP1204791	120 4791	Slide disposal box liner - 350	100/bx
SP6801965	680 1965	FS slide disposal liner - 5,1 FS/4600/5600	100/bx
SP6801966	680 1966	FS assay disposal liner - 5,1 FS/4600	100/bx
SP6802888	680 2888	Waste container liner A - 5600	100/bx
SP6802889	680 2889	Waste container liner B - 5600	100/bx
SP8716607	871 6607	Universal calibration disk - 5600	1/ea
SP6801876	680 1876	FS assay data disk - 5600	1/ea

### Disposables for VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® products disposables used on the VITROS® ECiQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP1831312	1831312	Maintenance pack	2 pk/bx
SP1451392	1451392	Micro sample cup caps	1,000/bx
SP1213115	1213115	Micro sample cups	4,000/bx
SP6801715	6801715	VITROS® Versatips	1,000/bx
SP6800355	6800355	Solid waste disposable containers (ECiQ only)	10/bx
SP6802888	6802888	Waste container liner A (5600 or 3600)	10/bx
SP6802889	6802889	Waste container liner B (5600 or 3600)	10/bx
SP6801060	6801060	Universal wash reservoir filter	1/ea
SP6801967	6801967	FS air filter (5600, 3600)	4/bx
SP6800100	6800100	Vapor adsorption cartridge	1/ea

### Fluids/Reagent Kits for VITROS® 350 Chemistry Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® TIBC Kit with VITROS® chemistry products FE slides quantitatively measures total iron-binding capacity (TIBC) in serum.

Cat. No.	Mfr. No.	Description	Qty.
SP8867541	8867541	TIBC kit	50/bx

### Fluids/Reagent Kits for VITROS® 350, 5,1 FS, 4600 Chemistry Systems and VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products used on the VITROS® 350/5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP8074452	807 4452	Citric acid solution	6 bt/bx
SP8262487	826 2487	7% BSA	12 bt/bx
SP1765304	176 5304	Reference fluid (350)	1/bx
SP8057812	805 7812	FS reference fluid (5,1 FS, 4600, 5600)	1/bx
SP1830033	183 0033	Immuno wash fluid (350, 5,1 FS, 4600, 5600)	1/bx
SP8559825	855 9825	Specialty diluent	6 bt/bx
SP1110352	111 0352	Urine electrolyte diluent	12 bt/bx

# Analyzers and Supplies

## Chemistry

### Fluids/Reagent Kits for VITROS® 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products used on the VITROS® 5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6801874	680 1874	FS reconstitution diluent	12 bt/bx
SP6801755	680 1755	MicroSensor check fluids I & II	2 sets/bx
SP6801752	680 1752	FS diluent pack I (Apo Diluent/UED)	3 pk/bx
SP6801753	680 1753	FS diluent pack 2 (BSA/Saline)	3 pk/bx
SP6801754	680 1754	FS diluent pack 3 (Specialty Diluent/Water)	3 pk/bx
SP6802326	680 2326	FS diluent pack 4 (DAT Dil/DAT Dil 2)	6 pk/bx

### MicroSlide Reagents for VITROS® 350, 5,1 FS, 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® MicroSlide technology provides high-quality results, minimizes operator interventions and offers ease of use. With no water, drains or reagent preparations, MicroSlide technology delivers 95% reportable result efficiency<sup>1</sup>.

<sup>1</sup>Ortho Clinical Diagnostics internal data on file.

Cat. No.	Mfr. No.	Description	Qty.
SP1037274	103 7274	Acetaminophen (ACET) - 18 slide	90/pk
SP8168122	816 8122	Acid Phosphatase (AcP) - 18 slide	90/pk
SP8196057	819 6057	Albumin (ALB)	250/pk
SP1988211	198 8211	Albumin (ALB) - 18 slide	90/pk
SP8046872	804 6872	Alcohol (ALC) - 18 slide	90/pk
SP1053180	105 3180	Alk Phos (ALKP)	300/pk
SP1655281A	165 5281	ALT	250/pk
SP1721869	172 1869	Ammonia (AMON)	300/pk
SP1726926	172 6926	Ammonia (AMON) - 18 slide	90/pk
SP1202670	120 2670	Amylase (AMYL)	300/pk
SP8112724	811 2724	Amylase (AMYL) - 18 slide	90/pk
SP8433815	843 3815	AST	300/pk
SP8383051	838 3051	BuBc	300/pk
SP1612365	161 2365	BuBc - 18 slide	90/pk
SP8102204	810 2204	BUN	300/pk
SP1450261	145 0261	Calcium (Ca)	300/pk
SP8892382	889 2382	Carbamazepine (CRBM) - 18 slide	90/pk
SP8262396	826 2396	Carbon Dioxide (ECO2)	300/pk
SP8445207	844 5207	Chloride (Cl-)	250/pk
SP1669829	166 9829	Cholesterol (CHOL)	300/pk
SP1914605	191 4605	Cholinesterase (CHE)	300/pk
SP8004707	800 4707	Cholinesterase (CHE) - 18 slide	90/pk
SP8479396	847 9396	CK	300/pk
SP8478034	847 8034	CK - 18 slide	90/pk

### Fluids for VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - VITROS® products used on the VITROS® ECiQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP8430373	8430373	High sample diluent A reagent	100 wells/pk
SP8321200	8321200	High sample diluent B reagent	100 wells/pk
SP8642712	8642712	High sample diluent A - manual	4 bt/bx
SP1435866	1435866	High sample diluent B - manual	4 bt/bx
SP1072693	1072693	Signal reagent	2 pk/bx
SP8389793	8389793	Universal wash reagent	2 bt/bx

Cat. No.	Mfr. No.	Description	Qty.
SP8058232	805 8232	CKMB	300/pk
SP8001133	800 1133	CKMB - 18 slide	90/pk
SP1926740	192 6740	C-Reactive Protein (CRP)	250/pk
SP8097990	809 7990	C-Reactive Protein (CRP) - 18 slide	90/pk
SP6802584	680 2584	Creatinine (CREA) IDMS traceable	300/pk
SP6801895	680 1895	Direct HDL (dHDL)	300/pk
SP6802469	680 2469	Direct HDL (dHDL) - 18 slide	90/pk
SP8343386	834 3386	Digoxin (DGXN) - 18 slide	90/pk
SP8257289	825 7289	GGT	250/pk
SP1707801	170 7801	Glucose (GLU)	300/pk
SP1515808	151 5808	Iron (Fe)	300/pk
SP1924547	192 4547	Iron (Fe) - 18 slide	90/pk
SP8433880	843 3880	Lactate (LAC)	300/pk
SP8150112	815 0112	Lactate (LAC) - 18 slide	90/pk
SP8384489	838 4489	LDH	250/pk
SP1668409	166 8409	Lipase (LIPA)	300/pk
SP8297749	829 7749	Lipase (LIPA) - 18 slide	90/pk
SP8318925	831 8925	Lithium (Li)	300/pk
SP1632660	163 2660	Lithium (Li) - 18 slide	90/pk
SP8255093	825 5093	Magnesium (Mg)	300/pk
SP1921204	192 1204	Magnesium (Mg) - 18 slide	90/pk
SP8298671	829 8671	Phenytoin (PHYT) - 18 slide	90/pk
SP1513209	151 3209	Phosphorus (PHOS)	300/pk
SP8157596	815 7596	Potassium (K+)	250/pk
SP8208431	820 8431	PROT (CSF PROTEIN) - 18 slide	90/pk
SP1314343	131 4343	Salicylate (SAL) - 18 slide	90/pk
SP8379034	837 9034	Sodium (Na+)	250/pk
SP8301764	830 1764	Theophylline (THEO)	300/pk
SP1307164	130 7164	Theophylline (THEO) - 18 slide	90/pk
SP8159931	815 9931	Total Bilirubin (TBIL)	300/pk
SP8392292	839 2292	Total Protein (TP)	250/pk
SP1336544	133 6544	Triglycerides (TRIG)	300/pk
SP8329930	832 9930	Triglycerides (TRIG) - 18 slide	90/pk
SP1943927	194 3927	Uric Acid (URIC)	300/pk
SP6800120	680 0120	Urine Protein (UPRO) - 18 slide	90/pk





### MicroTip Reagents for VITROS® 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® MicroTip technology provides special chemistry menu offerings and user-defined assays without the cost, maintenance, carryover and containment risks of traditional water-based systems.

Cat. No.	Mfr. No.	Description	Qty.
SP6802216	680 2216	AAT reagent	300/bx
SP6801991	680 1991	AMPH reagent	300/bx
SP6801737	680 1737	ApoA1 reagent	300/bx
SP6801738	680 1738	ApoB reagent	300/bx
SP6802218	680 2218	ASO reagent	300/bx
SP6801988	680 1988	BARB reagent	300/bx
SP6801989	680 1989	BENZ reagent	300/bx
SP6801735	680 1735	C3 reagent	300/bx
SP6801736	680 1736	C4 reagent	300/bx
SP6801713	680 1713	CAFFN reagent	200/bx
SP6801995	680 1995	COCM reagent	300/bx
SP6801728	680 1728	dLDL reagent	600/bx
SP6802001	680 2001	dTIBC reagent	300/bx
SP6801711	680 1711	GENT	300/bx
SP6801739	680 1739	hsCRP reagent	300/bx
SP6801732	680 1732	IgA reagent	300/bx
SP6801733	680 1733	IgG reagent	300/bx
SP6801734	680 1734	IgM reagent	300/bx
SP6801740	680 1740	mALB reagent	300/bx
SP6801996	680 1996	METD reagent	300/bx
SP6801997	680 1997	OP reagent	300/bx
SP6801741	680 1741	PALB reagent	300/bx
SP6801998	680 1998	PCP reagent	300/bx
SP6801729	680 1729	RF reagent	300/bx
SP6801994	680 1994	THC reagent	300/bx
SP6801712	680 1712	TOBRA reagent	300/bx
SP6801767	680 1767	TRFRN reagent	300/bx
SP6801710	680 1710	VALP reagent	300/bx
SP6801709	680 1709	VANC reagent	300/bx

### MicroWell Reagents for VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® MicroWell technology uses enhanced chemiluminescence detection, which enables wide dynamic ranges with exceptional immunoassay precision across multiple disease states. Minimizes unnecessary dilutions, repeats and redraws.



Cat. No.	Mfr. No.	Description	Qty.
SP6800784	6800784	AFP (AFP)	100 wells/pk
SP6801823	6801823	Anti-HAV Total (HAV T)	100 wells/pk
SP6801812	6801812	Anti-HAV IgM (HAV M)	100 wells/pk
SP6801425	6801425	Anti-HBc IgM (HBc M)	52 wells/pk
SP6801428	6801428	Anti-HBc (aHBc)	100 wells/pk
SP6801816	6801816	Anti-HBe (aHBe) (ECiQ only)	100 wells/pk
SP6801925	6801925	Anti-HBs (aHBs)	100 wells/pk
SP6801325	6801325	Anti-HCV (aHCV)	100 wells/pk
SP6801861	6801861	Anti-HIV 1+2 (aHIV)	100 wells/pk
SP1453489*	1453489	B12 (B12) *	100 wells/pk
SP1142561	1142561	B12/Folate- Rgt Pack 3	200 tests/pk
SP6801757	6801757	CA 125 II (CA125)	100 wells/pk
SP6801758	6801758	CA 15-3 (CA153)	100 wells/pk
SP1920115	1920115	CEA (CEA)	100 wells/pk
SP1896836	1896836	CK-MB (CK-MB)	100 wells/pk
SP1074053	1074053	Cortisol (Cort)	100 wells/pk
SP8552630	8552630	Estradiol (E2)	100 wells/pk
SP8356636	8356636	Ferritin (Ferr)	100 wells/pk
SP1513266	1513266	Folate Rgt pack ½ (Fol)	100 wells/pk
SP1107804	1107804	Folate - red cell	50 tests/pk
SP1315589	1315589	Free T3 (FT3)	100 wells/pk
SP1387000	1387000	Free T4 (FT4)	100 wells/pk
SP1931922	1931922	FSH (FSH)	100 wells/pk
SP6801819	6801819	HBsAg (HBsAg) (ECiQ only)	100 wells/pk
SP6801322	6801322	HBsAg (HBsAg)	100 wells/pk
SP6801324	6801324	HBsAg - confirm. kit (HBCon)	60 tst/kt
SP6802892	6802892	Intact PTH (iPTH)	100 wells/pk
SP1350198	1350198	LH (LH)	100 wells/pk
SP6801042	6801042	Myoglobin (Myog)	100 wells/pk
SP6802156	6802156	NT-proBNP (NTBNP)	100 wells/pk
SP6800030	6800030	N-Telopeptide (NTx)	100 wells/pk
SP1938570	1938570	Progesterone (Prog)	100 wells/pk
SP1849793	1849793	Prolactin (Prol)	100 wells/pk
SP6801756	6801756	PSA (PSA)	100 wells/pk
SP8536195	8536195	Rubella IgG (RubG)	100 wells/pk
SP1471481	1471481	T3 Uptake (T3U)	100 wells/pk
SP1435205	1435205	Testosterone (Testo)	100 wells/pk
SP6802220	6802220	Total β-hCG II (β-hCG)	100 wells/pk
SP1322528	1322528	Total T3 (TT3)	100 wells/pk
SP8744468	8744468	Total T4 (TT4)	100 wells/pk
SP6802301	6802301	Troponin I ES (TropI)	100 wells/pk
SP1912997	1912997	TSH (TSH)	100 wells/pk

\*Note: When ordering B12 and/or Folate Reagent Packs, you must also order Cat. No. SP1142561 - B12/FOLATE Reagent Pack 3.

# Analyzers and Supplies

## Chemistry

### Range Verifiers for VITROS® ECIQ, 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated Systems

ORTHO CLINICAL DIAGNOSTICS - For use in verifying the calibration range of the VITROS® ECIQ, 3600 Immunodiagnostic Systems and the VITROS® 5600 Integrated System when used for the measurement of the analytes listed in the instructions for use.

Cat. No.	Mfr. No.	Description	Qty.
SP6800878	6800878	AFP	2/bx
SP6800872	6800872	B12	1/bx
SP6800880	6800880	CA 125 II	1/bx
SP6800879	6800879	CA 15-3	1/bx
SP6802242	6802242	CA 19-9	1/bx
SP6800877	6800877	CEA	2/bx
SP6800377	6800377	CK-MB	1/bx
SP6800874	6800874	Cortisol	2/bx
SP6800380	6800380	Estradiol	2/bx
SP6800378	6800378	Ferritin	2/bx
SP6800873	6800873	Folate	2/bx
SP6800370	6800370	Free T3	2/bx
SP6800369	6800369	Free T4	2/bx
SP6800373	6800373	FSH	2/bx
SP6800372	6800372	LH	2/bx
SP6802158	6802158	NT-proBNP	2/bx
SP6800845	6800845	NTx	2/bx
SP6801044	6801044	Myoglobin	2/bx
SP6800375	6800375	Progesterone	2/bx
SP6800374	6800374	Prolactin	1/bx
SP6800876	6800876	PSA	1/bx
SP6800371	6800371	T3 Uptake	2/bx
SP6800661	6800661	Testosterone	2/bx
SP6802222	6802222	Total $\beta$ -hCG II	2/bx
SP6800368	6800368	Total T3	2/bx
SP6800367	6800367	Total T4	2/bx
SP6802303	6802303	Troponin I ES	1/bx
SP6800366	6800366	TSH	2/bx

### VITROS® 5,1 FS and 4600 Chemistry Systems and VITROS® 5600 Integrated System Special Reagent Packs for User Defined Assays

ORTHO CLINICAL DIAGNOSTICS - VITROS® chemistry products used on the VITROS® 5,1 FS and 4600 Chemistry Systems and the VITROS® 5600 Integrated System.



Cat. No.	Mfr. No.	Description	Qty.
SP6802246	680 2246	UD01 packs (empty)	6/pk
SP6802247	680 2247	UD02 packs (empty)	6/pk
SP6802248	680 2248	UD03 packs (empty)	6/pk
SP6802249	680 2249	UD04 packs (empty)	6/pk
SP6802250	680 2250	UD05 packs (empty)	6/pk
SP6802251	680 2251	UD06 packs (empty)	6/pk
SP6802252	680 2252	UD07 packs (empty)	6/pk
SP6802253	680 2253	UD08 packs (empty)	6/pk
SP6802254A	680 2254	UD09 packs (empty)	6/pk
SP6802255	680 2255	UD10 packs (empty)	6/pk
SP6802256	680 2256	UDD1 packs (empty)	6/pk
SP6802257	680 2257	UDD2 packs (empty)	6/pk



### Advanced® BR2 Bilirubin STAT-Analyzer®

ADVANCED INSTRUMENTS INC - The Advanced BR2 STAT-Analyzer system provides fast, accurate results for both total and direct bilirubin levels in neonates using only a 30  $\mu$ L serum or plasma sample. It determines total bilirubin by spectrophotometric analysis and direct bilirubin using a modified version of the proven Malloy-Evelyn method. Because of its accurate results, compact design and ease of use, it is ideally-suited for pediatric physician offices, satellite labs, hospital stat labs or pediatric research laboratories.

Cat. No.	Mfr. No.	Description	Qty.
B5900-2A	BR2	Advanced BR2 Bilirubin STAT Analyzer	1/ea



### Advanced® 3320 Micro-Osmometer

ADVANCED INSTRUMENTS INC - The Advanced® Model 3320 Micro-Osmometer is a single-sample osmometer designed to provide fast, accurate test results using a 20  $\mu$ L sample. It combines proven freezing point technology with an elegant design that is both simple to operate and easy to maintain. It is ideally suited for routine osmolality testing in the clinical diagnostic, pharmaceutical, and industrial laboratory setting.

Cat. No.	Mfr. No.	Description	Qty.
N6008-7	3320	Advanced Model 3320 Micro-Osmometer	1/ea



### Envoy 500+ Analyzer

ELITECH GROUP INC - The Envoy 500+ performs up to 500 tests per hour, allowing it to handle the workload of the busiest labs. The Envoy 500+ delivers the time and money saving features your lab requires with an integrated four-parameter dry ISE module, reusable glass cuvettes, positive sample and reagent identification, a built-in computer with touch screen LCD monitor and more.

Cat. No.	Mfr. No.	Description	Qty.
<b>03-07050-01</b>	6802400	Envoy 500+	1/ea
<b>Accessories</b>			
<b>276-001</b>	276-001	Bypass electrode	1/ea
<b>56124</b>	56124	ISE cup to electrode tubing kit	1/ea
<b>56127</b>	56127	ISE ground bypass tubing kit	1/ea
<b>56152</b>	56152	ISE reference peri pump tubing kit	1/ea
<b>56153</b>	56153	ISE waste output peri-pump tubing kit	1/ea
<b>CD56145</b>	56145	Maintenance kit	1/ea
<b>VD56101</b>	56101	Reagent boat	1/ea
<b>VD56102</b>	56102	Reagent bottle	1/ea
<b>55151A</b>	55151	Rinse solution kit	1/ea
<b>55610A</b>	55610	Sample cups	1,000/bg
<b>55100</b>	55100	Surfactant kit	1/ea
<b>55152A</b>	55152	Wash solution kit - 8 x 75 mL	1/ea

### Envoy 500+ Controls and Reagents

ELITECH GROUP INC

Cat. No.	Mfr. No.	Description	Qty.
<b>Calibrators</b>			
<b>55111A</b>	55111	Serum calibrator - 10 mL	4/bx
<b>55119</b>	55119	Cholesterol, HDL - 1 mL	4/bx
<b>CD55115</b>	55115	Cholesterol, LDL - 1 mL	4/bx
<b>55120</b>	55120	Direct A1c calibrator - 0.05 mL	4/vls
<b>55117A</b>	55117	ISE calibrator - 2 x 6 x 20 mL	1/ea
<b>Controls</b>			
<b>55136</b>	55136	Direct A1c controls - 0.05 mL	4/vls
<b>55131A</b>	55131	Serum controls - 5 mL normal and abnormal	12/vls
<b>Ion selective electrode consumables</b>			
<b>55381A</b>	55381	ISE baseline - 10 mL	5/kt
<b>55154A</b>	55154	ISE cleaner - 10 mL	5/kt
<b>55153A</b>	55153	ISE conditioner - 10 mL	5/kt
<b>55380A</b>	55380	ISE diluent - 10 mL	5/kt
<b>55382A</b>	55382	ISE reference - 500 mL	1/ea
<b>Ion selective electrodes</b>			
<b>275-001A</b>	275-001	Carbon dioxide	1/ea
<b>280-001A</b>	280-001	Chloride	1/ea
<b>279-001A</b>	279-001	Potassium	1/ea
<b>278-001A</b>	278-001	Sodium	1/ea
<b>273-001A</b>	273-001	Reference	1/ea
<b>Reagents</b>			
<b>55215</b>	55215	Alanine aminotransferase - 36 mL	8/bx
<b>55225</b>	55225	Albumin - 44.7 mL	8/bx
<b>55230A</b>	55230	Alkaline Phosphatase - 60 mL	8/bx
<b>55245</b>	55245	Amylase - 9 mL	4/bx
<b>55250A</b>	55250	Aspartate transaminase - 40 mL	8/bx
<b>55260A</b>	55260	Bilirubin, direct - 28 mL	8/bx
<b>CD55270</b>	55270	Bilirubin, total - 28 mL	8/bx
<b>55287</b>	55287	Calcium - 36.8 mL	8/bx
<b>55301</b>	55301	Cholesterol, HDL - 27 mL	4/bx
<b>55310A</b>	55310	Cholesterol, LDL - 27 mL	2/bx
<b>55297</b>	55297	Cholesterol, total - 44.6 mL	4/bx
<b>55327</b>	55327	Creatine Phosphokinase - 36 mL	4/bx
<b>VD55335</b>	55335	Creatinine - 27.5 mL	8/bx
<b>553651</b>	55365	Direct A1c - 30 mL	1/ea
<b>CD55352</b>	55352	Gamma glutamyl transferase - 24 mL	8/bx
<b>55345</b>	55345	Glucose - 45 mL	8/bx
<b>55360</b>	55360	Iron, total envoy - 27 mL	8/bx
<b>55395</b>	55395	Lactate dehydrogenase - 38.6 mL	8/bx
<b>55400</b>	55400	Magnesium - 45 mL	8/bx
<b>55415</b>	55415	Phosphorus - 44.6 mL	8/bx
<b>55425</b>	55425	Protein, total - 44.6 mL	8/bx
<b>55435</b>	55435	Triglycerides - 45 mL	8/bx
<b>VD55445</b>	55445	Urea Nitrogen (bun) - 36 mL	8/bx
<b>55450</b>	55450	Uric acid kit envoy - 28 mL	8/bx

# Analizers and Supplies

## Chemistry



### ABX Pentra 400 Chemistry Analyzer

HORIBA INSTRUMENTS - From routine to specific tests, perform them all on a single system. The ABX Pentra 400 is an extremely compact clinical chemistry benchtop analyzer. Its automation and continuous loading provides enhanced productivity in a user-friendly environment. The Pentra 400 performs up to 420 tests per hour throughput with the ISE module.

Cat. No.	Mfr. No.	Description	Qty.
<b>B3166-110</b>	5300001385	ABX Pentra 400	1/ea
<b>400STD0NUA</b>	5300001391	ABX Pentra 400 without ISE	1/ea



### Pentra C200 Compact Chemistry Analyzer

HORIBA INSTRUMENTS - The Pentra C200 delivers the same high quality results as the Pentra 400 processing up to 360 tests per hour with the ISE module. The Pentra C200 uses the same reagents, controls and calibrators.

Cat. No.	Mfr. No.	Description	Qty.
<b>PC200ISE00NUA1</b>	5300200001	Pentra C200	1/ea
<b>PC200STD00NUA1</b>	5300001417	Pentra C200 without ISE	1/ea



### Pentra C400 Chemistry Analyzer

HORIBA INSTRUMENTS - The Pentra C400 is an evolution of the successful system, the P400. This evolution ensures the user a platform that is reliable and extremely user friendly, while ensuring quality results that is the requirement in such an environment.

#### Features:

- Up to 420 tests per hour with the ISE module
- 55 on-board parameters with back-up availability
- Innovative cassette format
- Integrated work station and validation station
- Touch screen interface

Cat. No.	Mfr. No.	Description	Qty.
<b>5300001388</b>	5300001388	Pentra C400 ISE system	1/ea
<b>5300001394</b>	5300001394	Pentra C400 STD system	1/ea

Keeping pace  
with today's lab.





### Chemistry Analyzer Accessories

HORIBA INSTRUMENTS

Cat. No.	Mfr. No.	Description	Qty.
<b>Pentra 400</b>			
<b>XEA780AS</b>	1209159780	Adaptor, 4 mL vial	3/pk
<b>XEA781AS</b>	1209159781	Adaptor, 10 mL	3/pk
<b>B3166-246</b>	1209159782	Adaptor, cup sample	1/ea
<b>B3166-240</b>	1209131849	Adaptor, reagent rack	1/ea
<b>XEA779AS</b>	1209131968	Adaptor, tube	1/ea
<b>B3166-316</b>	3014029449	Chloride-E	1/ea
<b>A11A01891</b>	1220001891	Cuvettes 450 segments	450/cs
<b>A11A01851</b>	3100145498	Dummy electrode	1/ea
<b>B3166-213</b>	1228089078	Filter gasket ring liquid element	1/ea
<b>B3166-541</b>	1209159935	ISE cleaning kit	50/kt
<b>B3166-214</b>	1203600738	Lamp	1/ea
<b>B3166-209</b>	1228086583	O ring 1,000 uL, 500 uL	1/ea
<b>D01A00144</b>	5300100144	Pipettes	5/pk
<b>B3166-317</b>	3014029450	Potassium-E	1/ea
<b>B3166-238</b>	1209112453	Reader barcode external	1/ea
<b>B3166-203</b>	1221034634	Reagent cup 4 mL	100/bg
<b>B3166-202</b>	1221034626	Reagent cup 10 mL	100/bg
<b>B3166-204</b>	1221037307	Reagent cup 15 mL	100/bg
<b>B3166-542</b>	1209119564	Reagent probe	1/ea
<b>B3166-207</b>	1228078955	Reagent syringe 1,000 uL	1/ea
<b>B3166-318</b>	3014029451	Reference-E ISE	1/ea
<b>B3166-192</b>	1220001765	Sample cup blue	1,000/bg
<b>B3166-193</b>	1220001766	Sample cup green	1,000/bg
<b>B3166-194</b>	1220001767	Sample cup white	1,000/bg
<b>B3166-195</b>	1220001768	Sample cup yellow	1,000/bg
<b>XDA805B</b>	1209132805	Sample cup rack	1/ea
<b>XEA778CS</b>	1209159778	Sample rack + adaptors	1/ea
<b>B3166-206</b>	1228076812	Sample syringe 100 uL	1/ea
<b>B3166-212</b>	1228088454	Seal replacement tool	1/ea
<b>B3166-315</b>	3014029448	Sodium-E ISE	1/ea
<b>B3166-211</b>	1228086648	Teflon seal 100 uL	1/ea
<b>B3166-210</b>	1228086605	Teflon seal 1,000 uL	1/ea
<b>D00A00226</b>	5300000226	UPS for the p400 + cooling unit	1/ea
<b>XEA783AS</b>	1209159783	Waste container	1/ea
<b>LBH004A</b>	1207791004	Water container	1/ea
<b>Pentra C200</b>			
<b>A11A01922</b>	1220001922	30/10 cassettes kit	6/bx
<b>XBA711A</b>	1209112725	Barcode reader USB	1/ea
<b>HAX0297</b>	1207230297	Barcode sheet	1/ea
<b>F10B05964</b>	1221005964	Cleaning probe jig	1/ea
<b>A11A01914</b>	1220001914	Cuvette racks - 60 racks of 96 cuvettes	5760/cs
<b>A11A01915</b>	1220001915	Cuvette waste bag	100/bx
<b>F10B40310</b>	1221040310	Halogen lamp	1/ea
<b>F10B40253</b>	1221040253	Inline filter water tank	1/ea
<b>D00A00169</b>	5300000169	Keyboard, mini qwerty USB/PS2	1/ea
<b>F10B40256</b>	1221040256	Mixing paddle	1/ea
<b>D00A00165</b>	5300000165	Mouse	1/ea
<b>F10B05508</b>	1221005508	Reagent syringe tips	1/bg
<b>F10B40314</b>	1221040314	Sample cup adaptors	1/ea
<b>F10B40255</b>	1221040255	PC200 Sample needle	1/ea
<b>F10B26109</b>	1221026109	Sample syringe tips	1/bg
<b>XEC086AS</b>	1209179086	Silicon oil tips	1/bg
<b>F10B40318</b>	1221040318	Waste bag insertion tool	1/ea
<b>F10B05511</b>	1221005511	Wash syringe tips	1/bg

### Chemistry Controls and Calibrators

HORIBA INSTRUMENTS

Cat. No.	Mfr. No.	Description	Qty.
<b>A11A01966</b>	1220001966	ALB calibrator	1/ea
<b>A11A01967</b>	1220001967	ALB control L/H	1/ea
<b>B3166-325</b>	1220001786	CK control 4 x 3 mL	1/ea
<b>B3166-340</b>	1220001648	CO2 calibrator 3 x 3 mL	1/ea
<b>B3166-405</b>	5301101890	CO2 control 6 x 2 mL	1/ea
<b>B3166-253</b>	1220001616	CRP calibrator 5 x 1 mL	1/ea
<b>B3166-322</b>	1220001769	Etching CP	1/ea
<b>B3166-268</b>	1220001647	HDL calibrator 2 x 1 mL	1/ea
<b>B3166-258</b>	1220001621	Immuno I control L/H 1	1/ea
<b>B3166-284</b>	1220001678	LDL calibratorL 2 x 1 mL	1/ea
<b>B3166-540</b>	5300100139	Linearity kit, 5 x 5 mL	1/ea
<b>B3166-271</b>	1220001652	Multical calibrator 10 x 3 mL	1/ea
<b>B3166-309</b>	1220001717	Standard 1 - 1 x 280 mL	1/ea
<b>B3166-310</b>	1220001718	Standard 2 - 1 x 100 mL	3/pk

### Chemistry Reagents

HORIBA INSTRUMENTS

Cat. No.	Mfr. No.	Description	Qty.
<b>B3166-350A</b>	1220001664	Albumin	1/ea
<b>A11A01965</b>	1220001965	Albumin CP	1/ea
<b>B3166-115</b>	1220001626	ALP	1/ea
<b>B3166-116</b>	1220001627	ALT	1/ea
<b>B3166-117</b>	1220001628	Amylase	1/ea
<b>B3166-118</b>	1220001629	AST	1/ea
<b>B3166-122</b>	1220001633	Calcium	1/ea
<b>B3166-123</b>	1220001634	Cholesterol CP	1/ea
<b>B3166-121</b>	1220001632	CK NAC	1/ea
<b>B3166-320</b>	1220001755	Clean-Chem CP	1/ea
<b>B3166-404</b>	1220001645	CO2 2 x 20mL	1/ea
<b>B3166-248</b>	1220001611	CRP CP	1/ea
<b>A11A01933</b>	1220001933	Creatinine CP	1/ea
<b>B3166-319</b>	1220001754	Deproteinizer CP CAS	1/ea
<b>B3166-124</b>	1220001635	Direct Bilirubin CP	3/pk
<b>B3166-119</b>	1220001630	GGT	1/ea
<b>B3166-278</b>	1220001667	Glucose HK CP	1/ea
<b>A11A01934</b>	1220001934	HDL 100 CP	1/ea
<b>B3166-330</b>	1220001636	HDL Direct CP	1/ea
<b>A11A01702</b>	1220001702	HgbA1c reagent	1/ea
<b>B3166-126</b>	1220001637	Iron	1/ea
<b>B3166-311</b>	1220001719	ISE reference 1 x 100 mL	1/ea
<b>B3166-312</b>	1220001721	Lactic Acid 1 x 103 mL	1/ea
<b>B3166-408</b>	1220001871	LDH	1/ea
<b>B3166-331</b>	1220001638	LDL Direct CP	1/ea
<b>B3166-120</b>	1220001631	Lipase	1/ea
<b>B3166-135</b>	1220001646	Magnesium RTU 2 x 25 mL	1/ea
<b>B3166-276</b>	1220001665	Phosphorus CP	1/ea
<b>B3166-321</b>	1220001758	Qualitest solution	1/ea
<b>D01A00143</b>	5300100143	Reagent grade water	1/ea
<b>B3166-128</b>	1220001639	Total Bilirubin	1/ea
<b>B3166-406A</b>	1220001932	Total Protein	1/ea
<b>B3166-336</b>	1220001640	Triglycerides CP	1/ea
<b>B3166-281</b>	1220001670	Uric Acid CP	1/ea
<b>B3166-130</b>	1220001641	Urea	1/ea
<b>B3166-337</b>	1220001642	Urinary Proteins CP CA	1/ea

# Analysts and Supplies

## Immunoassay



### VITROS® ECiQ Immunodiagnostic System

ORTHO CLINICAL DIAGNOSTICS - The VITROS® ECiQ Immunodiagnostic System is a simple-to-use, flexible and fully automated laboratory testing system that provides true continuous, STAT and random access capabilities for routine and specialty immunodiagnostic testing. It uses enhanced chemiluminescence detection technology to provide excellent assay performance, including wide dynamic ranges and enhanced precision and sensitivity.

Cat. No.	Mfr. No.	Description	Qty.
SP1922814	1922814	VITROS® ECiQ system	1/ea



### VITROS® 3600 Immunodiagnostic System

ORTHO CLINICAL DIAGNOSTICS - Designed to help you do more with less, the VITROS® 3600 Immunodiagnostic System provides a world-class immunoassay menu on a high productivity platform. Proven, easy-to-use, self-monitoring VITROS® technologies as well as high-quality, high-reportable results efficiency. Single-use tips for patient samples and reagents address carry-over and cross contamination concerns.

Cat. No.	Mfr. No.	Description	Qty.
SP6802783	6802783	VITROS® 3600 system	1/ea

### Accessories for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® accessories used on the VITROS® ECiQ and 3600 Immunodiagnostic systems and VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6803911	6803911	5600/3600/AT seismic anchor kit (5600 or 3600)	1/ea
SP6800083	6800083	Desiccant-for storage box	6/bx
SP1329135	1329135	Liquid waste bottle and cap	1/ea
SP1093517A	1093517	Micro-collection container adapter (ECiQ only)	10/bx
SP6804199	6804199	Microimmunoassay AT metering cover (5600 or 3600)	1/ea
6803935	6803935	Powerware (9135/6kVA) UPS (5600 or 3600)	1/ea
SP8231722	8231722	Reagent storage box	1/bx
SP1877158	1877158	System cleaning solution - 1 L	2/bx
SP8111957	8111957	Universal sample tray	1/ea
SP6802891	6802891	VITROS® 3600 heat rejection plenum (3600 only)	1/ea

### Controls for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - For use in monitoring the performance of the VITROS® ECiQ and 3600 Immunodiagnostic systems and VITROS® 5600 Integrated System when used for the measurement of the analytes listed in the instructions for use.

Cat. No.	Mfr. No.	Description	Qty.
SP1619360	1619360	Anemia	3 sets/bx
SP6801463	6801463	Anti-HAV Total	3 sets/bx
SP6800835	6800835	Anti-HAV IgM	3 sets/bx
SP6801427	6801427	Anti-HBc IgM	3 sets/bx
SP6801430	6801430	Anti-HBc	3 sets/bx
SP6802093	6802093	Anti-HBs	3 sets/bx
SP6801421	6801421	Anti-HCV	3 sets/bx
SP6801863	6801863	Anti-HIV 1+2	3 sets/bx
SP91474	91474	Cliniq Liq QC cardiac mkr.	2 sets/bx
SP1315654	1315654	Free Thyroid	3 sets/bx
SP10820	10820	Fujirebio tumor marker	3 sets/bx
SP6801390	6801390	HBsAg	3 sets/bx
SP1420025	1420025	Metabolism	3 sets/bx
SP6800336	6800336	NTx	3 sets/bx
SP1009406	1009406	RE	3 sets/bx
SP6800660	6800660	Testosterone	3 sets/bx
SP1410646	1410646	Total Thyroid	3 sets/bx

### Calibrators for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® immunoassay products calibrators are used to calibrate VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System.

Cat. No.	Mfr. No.	Description	Qty.
SP6800863	6800863	AFP	1 set/pk
SP6801462	6801462	Anti-HAV Total	1 vial/pk
SP1372101	1372101	Anti-HAV IgM	1 vial/pk
SP6801426	6801426	Anti-HBc IgM	1 vial/pk
SP6801429	6801429	Anti-HBc	1 vial/pk
SP6801817	6801817	Anti-HBe (ECiQ Only)	3 vials/pk
SP6801926	6801926	Anti-HBs	1 set/pk
SP6801326	6801326	Anti-HCV	1 set/pk
SP6801862	6801862	Anti-HIV 1+2	1 vial/pk
SP1540525	1540525	B12	1 set/pk
SP6800034	6800034	CA 125 II	1 set/pk
SP6800033	6800033	CA 15-3	1 set/pk
SP6800035	6800035	CA 19-9	1 set/pk
SP1062306	1062306	CEA	1 set/pk
SP1286293	1286293	CK-MB	3 sets/pk
SP1681543	1681543	Cortisol	3 sets/pk
SP1318930	1318930	Estradiol	1 set/pk
SP1158864	1158864	Ferritin	3 sets/pk
SP1311075	1311075	Folate	1 set/pk
SP1112820	1112820	Free T3	3 sets/pk
SP1728872	1728872	Free T4	3 sets/pk
SP1901263	1901263	FSH	1 set/pk
SP6801820	6801820	HBeAg (ECiQ Only)	3 vials/pk
SP6801323	6801323	HBsAg	1 vial/bx
SP6802893	6802893	Intact PTH	3 sets/pk
SP1090133	1090133	LH	1 set/pk
SP6801043	6801043	Myoglobin	3 sets/pk
SP6802157	6802157	NT-proBNP	1 set/pk
SP6800031	6800031	NTx	1 set/pk
SP8254898	8254898	Progesterone	3 sets/pk
SP1113596	1113596	Prolactin	3 sets/pk
SP1933027	1933027	PSA	1 set/pk
SP8209074	8209074	Rubella IgG	1 set/pk
SP1209733	1209733	T3 Uptake	3 sets/pk
SP1306026	1306026	Testosterone	1 set/pk
SP6802221	6802221	Total β-hCG II	3 sets/pk
SP1614965	1614965	Total T3	1 set/pk
SP1393396	1393396	Total T4	1 set/pk
SP6802302	6802302	Troponin I ES	1 set/pk
SP1487289	1487289	TSH	1 set/pk

### Disposables for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
SP1831312	1831312	Maintenance pack	2 pk/bx
SP1451392	1451392	Micro sample cup caps	1,000/bx
SP1213115	1213115	Micro sample cups	4,000/bx
SP6801715	6801715	VITROS® Versatips	1,000/bx
SP6800355	6800355	Solid waste disposable containers (ECiQ only)	10/bx
SP6802888	6802888	Waste container liner A (5600 or 3600)	10/bx
SP6802889	6802889	Waste container liner B (5600 or 3600)	10/bx
SP6801060	6801060	Universal wash reservoir filter	1/ea
SP6801967	6801967	FS air filter (5600, 3600)	4/bx
SP6800100	6800100	Vapor adsorption cartridge	1/ea

### Fluids for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
SP8430373	8430373	High sample diluent A reagent	100 wells/pk
SP8321200	8321200	High sample diluent B reagent	100 wells/pk
SP8642712	8642712	High sample diluent A - manual	4 bt/bx
SP1435866	1435866	High sample diluent B - manual	4 bt/bx
SP1072693	1072693	Signal reagent	2 packs/bx
SP8389793	8389793	Universal wash reagent	2 bt/bx

Timing is everything...  
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your laboratory supplies.

# Analyzers and Supplies

## Immunoassay

### MicroWell Reagents for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - VITROS® MicroWell technology uses enhanced chemiluminescence detection, which enables wide dynamic ranges with exceptional immunoassay precision across multiple disease states. Minimizes unnecessary dilutions, repeats and redraws.



Cat. No.	Mfr. No.	Description	Qty.
SP6800784	6800784	AFP (AFP)	100 wells/pk
SP6801823	6801823	Anti-HAV Total (HAV T)	100 wells/pk
SP6801812	6801812	Anti-HAV IgM (HAV M)	100 wells/pk
SP6801425	6801425	Anti-HBc IgM (HBc M)	52 wells/pk
SP6801428	6801428	Anti-HBc (aHBc)	100 wells/pk
SP6801816	6801816	Anti-HBe (aHBe)(ECiQ only)	100 wells/pk
SP6801925	6801925	Anti-HBs (aHBs)	100 wells/pk
SP6801325	6801325	Anti-HCV (aHCV)	100 wells/pk
SP6801861	6801861	Anti-HIV 1+2 (aHIV)	100 wells/pk
SP1453489*	1453489	B12 (B12) *	100 wells/pk
SP1142561	1142561	B12/Folate- Rgt Pack 3	200 tests/pk
SP6801757	6801757	CA 125 II (CA125)	100 wells/pk
SP6801758	6801758	CA 15-3 (CA153)	100 wells/pk
SP1920115	1920115	CEA (CEA)	100 wells/pk
SP1896836	1896836	CK-MB (CK-MB)	100 wells/pk
SP1074053	1074053	Cortisol (Cort)	100 wells/pk
SP8552630	8552630	Estradiol (E2)	100 wells/pk
SP8356636	8356636	Ferritin (Ferr)	100 wells/pk
SP1513266	1513266	Folate Rgt Pack ½ (Fol)	100 wells/pk
SP1107804	1107804	Folate - red cell	50 tests/pk
SP1315589	1315589	Free T3 (FT3)	100 wells/pk
SP1387000	1387000	Free T4 (FT4)	100 wells/pk
SP1931922	1931922	FSH (FSH)	100 wells/pk
SP6801819	6801819	HBeAg (HBeAg) (ECiQ only)	100 wells/pk
SP6801322	6801322	HBsAg (HBsAg)	100 wells/pk
SP6801324	6801324	HBsAg - confirm. kit (HBCon)	60 tst/kit
SP6802892	6802892	Intact PTH (iPTH)	100 wells/pk
SP1350198	1350198	LH (LH)	100 wells/pk
SP6801042	6801042	Myoglobin (Myog)	100 wells/pk
SP6802156	6802156	NT-proBNP (NTBNP)	100 wells/pk
SP6800030	6800030	N-Telopeptide (NTx)	100 wells/pk
SP1938570	1938570	Progesterone (Prog)	100 wells/pk
SP1849793	1849793	Prolactin (Prol)	100 wells/pk
SP6801756	6801756	PSA (PSA)	100 wells/pk
SP8536195	8536195	Rubella IgG (RubG)	100 wells/pk
SP1471481	1471481	T3 Uptake (T3U)	100 wells/pk
SP1435205	1435205	Testosterone (Testo)	100 wells/pk
SP6802220	6802220	Total β-hCG II (β-hCG)	100 wells/pk
SP1322528	1322528	Total T3 (TT3)	100 wells/pk
SP8744468	8744468	Total T4 (TT4)	100 wells/pk
SP6802301	6802301	Troponin I ES (TropI)	100 wells/pk
SP1912997	1912997	TSH (TSH)	100 wells/pk

\*Note: When ordering B12 and/or Folate Reagent Packs, you must also order CAT #114 2561 – B12/FOLATE Reagent Pack 3.

### Range Verifiers for VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System

ORTHO CLINICAL DIAGNOSTICS - For use in verifying the calibration range of the VITROS® ECiQ and 3600 Immunodiagnostic Systems and VITROS® 5600 Integrated System when used for the measurement of the analytes listed in the instructions for use.

Cat. No.	Mfr. No.	Description	Qty.
SP6800878	6800878	AFP	2/bx
SP6800872	6800872	B12	1/bx
SP6800880	6800880	CA 125 II	1/bx
SP6800879	6800879	CA 15-3	1/bx
SP6802242	6802242	CA 19-9	1/bx
SP6800877	6800877	CEA	2/bx
SP6800377	6800377	CK-MB	1/bx
SP6800874	6800874	Cortisol	2/bx
SP6800380	6800380	Estradiol	2/bx
SP6800378	6800378	Ferritin	2/bx
SP6800873	6800873	Folate	2/bx
SP6800370	6800370	Free T3	2/bx
SP6800369	6800369	Free T4	2/bx
SP6800373	6800373	FSH	2/bx
SP6800372	6800372	LH	2/bx
SP6802158	6802158	NT-proBNP	2/bx
SP6800845	6800845	NTx	2/bx
SP6801044	6801044	Myoglobin	2/bx
SP6800375	6800375	Progesterone	2/bx
SP6800374	6800374	Prolactin	1/bx
SP6800876	6800876	PSA	1/bx
SP6800371	6800371	T3 Uptake	2/bx
SP6800661	6800661	Testosterone	2/bx
SP6802222	6802222	Total β-hCG II	2/bx
SP6800368	6800368	Total T3	2/bx
SP6800367	6800367	Total T4	2/bx
SP6802303	6802303	Troponin I ES	1/bx
SP6800366	6800366	TSH	2/bx



### ThunderBolt® ELISA Analyzer

GOLD STANDARD DIAGNOSTICS - The ThunderBolt® offers features that streamline your workflow with easy loading and fully automated processing. Program the ThunderBolt® to run virtually any EIA or CLIA assay with up to eight different protocols in a single batch. The software provides features your lab requires with intuitive operation for easy training and ongoing use. The Test Designer allows for assay protocol adherence, and the Report Generator offers numerous reporting and analysis options.

Features include:

- Barcode reader
- Built-in reader
- Convection incubator
- High precision micro-syringe
- Intelligent racks
- On-board camera
- Sliding sample tray

Cat. No.	Mfr. No.	Description	Qty.
<b>GS00300</b>	00300	ELISA analyzer	1/ea
<b>GS00300CL</b>	00300-CL	EIA+CLIA analyzer	1/ea



### Analyzer Accessories and Supplies

GOLD STANDARD DIAGNOSTICS - Consumables and replacement parts for ThunderBolt® Immunoassay Analyzer.

Cat. No.	Mfr. No.	Description	Qty.
<b>186001</b>	00186	Alignment plate set for Thunderbolt	1/ea
<b>56171</b>	5617	Bottle - 1 L, wash, without fluidics	1/ea
<b>60151</b>	6015	Bottle - 2 L, waste without fluidics	1/ea
<b>CLQ20A</b>	CLQ20	Liquinox, concentrated	1/ea
<b>54091</b>	5409	Marprene tubing - 1.5 x 0.8 mm	1/ea
<b>2608362</b>	260836	Predilution flat bottom plates	1/ea
<b>155003</b>	00155	Probe for Thunderbolt analyzer	1/ea
<b>53341</b>	5334	Reagent bottle adaptor - 25.5 mm	1/ea
<b>53322</b>	5332	Reagent bottle adaptor - 27.5 mm	1/ea
<b>53361</b>	5336	Reagent bottle adaptor - 34.7 mm	1/ea
<b>GSD503071A</b>	GSD50-3071400	Reagent bottles with caps - 20 mL	50/ea
<b>168-12001</b>	00168-12	Sample rack for 12 mm sample tubes	1/ea
<b>168-13001</b>	00168-13	Sample rack for 13 mm sample tubes	1/ea
<b>168-16001</b>	00168-16	Sample rack for 16 mm sample tubes	1/ea
<b>54062</b>	5406	Silicone tubing - 1 x 3 mm	1/ea
<b>54072</b>	5407	Silicone tubing - 3.2 x 1.6 mm	1/ea
<b>61071</b>	6107	Styilet for Thunderbolt analyzer	1/ea
<b>54691</b>	5469	Thumbscrew, M5x15, plastic, left cover	1/ea
<b>53931</b>	5393	Thumbscrew, M5x25, plastic, ledge	1/ea
<b>222003</b>	00222	Wash cable and tube assembly, blue	1/ea
<b>221002</b>	00221	Wash cable and tube assembly, red	1/ea
<b>58634</b>	5863	Wash cup for Thunderbolt	1/ea
<b>220001</b>	00220	Waste cable and tube assembly, black	1/ea

### Autoimmune ELISA Test Kits

GOLD STANDARD DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
<b>GSD011300</b>	GSD01-1300	ANA HEp-2 Screen	1/ea
<b>GS13372</b>	13372	Anti-Beta 2 Glycoprotein I IgA	1/ea
<b>GS13370</b>	13370	Anti-Beta 2 Glycoprotein I IgG	1/ea
<b>GS13371</b>	13371	Anti-Beta 2 Glycoprotein I IgM	1/ea
<b>GS13530</b>	13530	Anti-Cardiolipin (aCl) IgA	1/ea
<b>GS13525</b>	13525	Anti-Cardiolipin (aCl) IgG	1/ea
<b>GS13529</b>	13529	Anti-Cardiolipin (aCl) IgM	1/ea
<b>GS104113</b>	104-113	Anti-Chromatin (Nucleosomes)	1/ea
<b>GSFCCP600</b>	FCCP600	Anti-Cyclic Citrullinated Peptide (CCP)	1/ea
<b>GS9177</b>	9177	Anti-Deamidated Gliadin Peptide IgA	1/ea
<b>GS9178</b>	9178	Anti-Deamidated Gliadin Peptide IgG	1/ea
<b>GS720700</b>	720-700	Anti-dsDNA	1/ea
<b>GS720290</b>	720-290	Anti-Jo-1	1/ea
<b>GS720430</b>	720-430	Anti-MPO IgG	1/ea
<b>GS13536</b>	13536	Anti-Phosphatidylserine IgA	1/ea
<b>GS13534</b>	13534	Anti-Phosphatidylserine IgG	1/ea
<b>GS13535</b>	13535	Anti-Phosphatidylserine IgM	1/ea
<b>GS10238</b>	10238	Anti-Prothrombin IgG	1/ea
<b>GS10240</b>	10240	Anti-Prothrombin IgM	1/ea
<b>GS720280</b>	720-280	Anti-Scl-70	1/ea
<b>GS720240</b>	720-240	Anti-Sm	1/ea
<b>GS720270</b>	720-270	Anti-Sm/RNP	1/ea
<b>GS720250</b>	720-250	Anti-SSA	1/ea
<b>GS720260</b>	720-260	Anti-SSB	1/ea
<b>GS720460</b>	720-460	Anti-TG IgG	1/ea
<b>GS9165</b>	9165	Anti-Tissue Transglutaminase IgA	1/ea
<b>GS9166</b>	9166	Anti-Tissue Transglutaminase IgG	1/ea
<b>GS720450</b>	720-450	Anti-TPO IgG	1/ea
<b>GS720230</b>	720-230	ENA-6 Screen	1/ea
<b>GSORG522A</b>	ORG522A	Rheumatoid Factor IgA	1/ea
<b>GSORG522G</b>	ORG522G	Rheumatoid Factor IgG	1/ea
<b>GSORG522M</b>	ORG522M	Rheumatoid Factor IgM	1/ea

# Analizers and Supplies

## Immunoassay

### Coagulation ELISA Autoimmune Test Kits

GOLD STANDARD DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
<b>GS035001</b>	035-001	Protein C	1/ea
<b>GS036001</b>	036-001	Protein S	1/ea

### Multiplex Autoimmune Assay Panels

GOLD STANDARD DIAGNOSTICS - Multiplex technology allows clinicians to perform an entire panel of assays in a single well. A single well can contain up to 500 microsphere beads, each coated with a reagent specific to a particular assay. The beads are color coded, allowing for accurate, automated reading of results by an advanced optical system. The FIDIS™ Connective 10 panel simultaneously detects antibodies for dsDNA, SS-A, SS-B, RNP, Sm, Jo-1, Scl-70, ribosomal P and centromere. FIDIS™ Vasculitis panel simultaneously detects antibodies for ANCA-PR3, ANCA - MPO, GM.

Cat. No.	Mfr. No.	Description	Qty.
<b>GSMX006</b>	MX006	FIDIS™ Connective 10	1/ea
<b>GSMX007</b>	MX007	FIDIS™ Vasculitis	1/ea

### Endocrinology ELISA Test Kits

GOLD STANDARD DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
<b>GSEIA1292</b>	EIA-1292	17#-OH Progesterone	1/ea
<b>CANFTE260</b>	CAN-FTE-260	Testosterone - Free (fTE)	1/ea
<b>GSCANTE250</b>	CAN-TE-250	Testosterone - Total	1/ea

### Infectious Disease ELISA Test Kits

GOLD STANDARD DIAGNOSTICS

Cat. No.	Mfr. No.	Description	Qty.
<b>DKE352096</b>	DK-E352-096	Borrelia burgdorferi (Lyme) C6	1/ea
<b>2346580</b>	2346580	Borrelia burgdorferi (Lyme) IgG/IgM	1/ea
<b>GSD01140</b>	GSD01-140	CMV IgG	1/ea
<b>GSD01140A</b>	GSD01-150	CMV IgM	1/ea
<b>GSD01490</b>	GSD01-490	EBV EA-D IgG	1/ea
<b>GSD01460</b>	GSD01-460	EBV NA IgG	1/ea
<b>GSD01470</b>	GSD01-470	EBV VCA IgG	1/ea
<b>GSD01480</b>	GSD01-480	EBV VCA IgM	1/ea
<b>GSD013003</b>	GSD01-3003	Echinococcus IgG	1/ea
<b>GSD013000</b>	GSD01-3000	Entamoeba histolytica IgG	1/ea
<b>GSD011001</b>	GSD01-1001	H. pylori IgA	1/ea
<b>GSD011000</b>	GSD01-1000	H. pylori IgG	1/ea
<b>GSD01160</b>	GSD01-160	HSV 1 and 2 IgG	1/ea
<b>GS720350</b>	720-350	HSV 1 and 2 IgM	1/ea
<b>GSEL0910G</b>	EL0910G	HSV 1 IgG	1/ea
<b>GSEL0920G</b>	EL0920G	HSV 2 IgG	1/ea
<b>720-520</b>	720-520	Measles IgG	1/ea
<b>GSD01200</b>	GSD01-200	Mumps IgG	1/ea
<b>GSD01100</b>	GSD01-100	Rubella IgG	1/ea
<b>GSD01100A</b>	GSD01-110	Rubella IgM	1/ea
<b>GSSCHG0410</b>	SCHG0410	Schistosoma Mansoni IgG	1/ea
<b>GSD01580</b>	GSD01-580	Syphilis IgG	1/ea
<b>GSD01120</b>	GSD01-120	Toxoplasma IgG	1/ea
<b>GSD01120A</b>	GSD01-130	Toxoplasma IgM	1/ea
<b>GSD013002</b>	GSD01-3002	Trichinella Spiralis IgG	1/ea
<b>GSD01180</b>	GSD01-180	VZV IgG	1/ea

**Cardinal Health** offers more than **75,000** laboratory products from **400** leading manufacturers.

### AIX1000™ Automated RPR Analyzer

**GOLD STANDARD DIAGNOSTICS** - The AIX1000™ is the only FDA-approved automated RPR analyzer. The AIX1000 is cost effective and efficient, providing RPR automation that will allow increased personnel productivity. RPR automation will reduce subjectivity and variability associated with manual RPR testing and enables throughput up to 192 samples in 90 minutes. Digital image archiving allows on demand review.

#### Features include:

- Intelligent racks
- High precision micro-syringe
- On-board camera
- Built-in barcode reader
- Orbital MTP Shaker
- Small Footprint

Cat. No.	Mfr. No.	Description	Qty.
GSD400	00400	RPR analyzer	1/ea



### BeeBlot™ Automated Immunoblot Processor

**GOLD STANDARD DIAGNOSTICS** - The BeeBlot™ Semi-automated Immunoblot Processor automates the protocol for most strip based assays, including Line Immunoassays and traditional Western Blots. When combined with the BLOTrix scanner and analysis software, processing and software-assisted interpretation of immunoblot diagnostic assays is possible.

The BLOTrix scanner captures digital imagery of developed immunoassay strips. Simply load the tray from the BeeBlot processor into the reader, and the fully-integrated software assists with band identification and band interpretation. Images and results can be archived, and automatically sent to the LIS/LIMS system.



### Lyme Disease Immunoblot Test Kits

**GOLD STANDARD DIAGNOSTICS**

Cat. No.	Mfr. No.	Description	Qty.
GSD011018	GSD01-1018	Borrelia burgdorferi (Lyme) IgG LINE Blot - 32 tests	1/ea
GSD061018	GSD06-1018	Borrelia burgdorferi (Lyme) IgG LINE Blot - bulk pack 192 tests	1/ea
GSD011019	GSD01-1019	Borrelia burgdorferi (Lyme) IgM LINE Blot - 32 tests	1/ea
GSD061019	GSD06-1019	Borrelia burgdorferi (Lyme) IgM LINE Blot - bulk pack 192 tests	1/ea

Cat. No.	Mfr. No.	Description	Qty.
GSBBLOTNH	BBLOTNH	BeeBlot immunoblot processor	1/ea
GSBTRS1 US	BTRS1 US	BLOTrix reader S1	1/ea
GSBTX3	BTX3	BLOTrix software version 3.4	1/ea
GSBTX3IE	BTX3IE	BLOTrix export interface	1/ea

# Analyzers and Supplies

## Immunoassay



### DiaSorin LIAISON® Analyzer

DIASORIN INC - The LIAISON® analyzer combines a flexible operating mode with a broad assay menu and leads to high efficiency due to its long walk-away time. Up to 15 different assays on board and a maximum throughput of up to 180 tests per hour. A touch-screen monitor, clear software structure and the reagent integral, which contains all assay-specific reagents, make the system very easy to use.

Cat. No.	Mfr. No.	Description	Qty.
<b>B1032-53</b>	15970	LIAISON® analyzer	1/ea
<b>B1032-383</b>	310990	Cleaning kit	1/ea
<b>B1032-9130</b>	319130	Reaction module - for 2,300 determinations	1/ea
<b>B1032-9100</b>	319100	Wash/system liquid - 1 L bottle	6/ea
<b>B1032-9102</b>	319102	Starter kit - for 3 x 1,000 determinations	3 sets/ea
<b>B1032-008</b>	7222952202	Twin system	1/ea
<b>B1032-009</b>	7222903603	Primary system	1/ea
<b>B1032-010</b>	7222903901	Secondary system	1/ea
<b>B1032-088</b>	9450088	10 L bottle with red cap	1/ea
<b>B1032-412</b>	A0068	External rack or control calibrator	1/ea
<b>B1033-01</b>	9450280	Patient rack "A" - 12-position	1/ea
<b>B1032-50</b>	9450003	Waste bag - for 10 x 330 modules	10/ea



### DiaSorin LIAISON® XL Analyzer

DIASORIN INC - The LIAISON® XL analyzer is a fully-automated, continuous loading chemiluminescent immunoassay (CLIA) analyzer for in vitro diagnostic analysis on human serum or plasma. The system menu includes infectious disease, bone and mineral and endocrinology assays. It is to be used only with immunoassays that are marketed by DiaSorin for the LIAISON® XL analyzer.

The analyzer uses DiaSorin proprietary reagents in which an analyte is measured in a sample by the reaction of a magnetic particle solid phase coated with antigen or antibody and a chemiluminescent tracer. The reagents are in a ready-to-use integral and for most assays, calibrators are in the reagent integral. The LIAISON® XL analyzer has 25 reagent integral positions. The system provides the operator an upfront estimation of the consumables on board and allows the operator to add additional consumables before starting the run. This improves walk-away time for large workloads.

Advanced safety measures include use of single-cavity reaction cuvettes and disposable tips to prevent carry over. It delivers a random access throughput of up to 180 tests per hour. The throughput is optimized by splitting the pipetting phases of reagents and samples into different cycles and doubling the capacity of the washing and measuring stations. In comparison to the LIAISON® analyzer, the LIAISON® XL analyzer provides 50% to 90% higher throughput, with most two-step assays working at maximum throughput.

Result reporting with in-process controls, including 100% continuous monitoring of all critical assay processing steps. Service remote access from a central service center to the system allows customers to obtain fast assistance.

Requires no daily maintenance. The instrument informs the user when weekly and monthly maintenance is due and monitors the scheduled tasks automatically.

Cat. No.	Mfr. No.	Description	Qty.
<b>I0050</b>	I0050	LIAISON® XL analyzer	1/ea
<b>319200A</b>	319200	Starter kit	3 sets/ea
<b>7221601001A</b>	7221601001	Sample rack	1/ea
<b>A0120A</b>	A0120	Sample rack holder	1/ea
<b>X0015A</b>	X0015	Disposable tips	1/ea
<b>X0016A</b>	X0016	Cuvettes	1/ea
<b>X0025A</b>	X0025	Biohazard waste bag	1/ea
<b>310995</b>	310995	XL cleaning kit	1/ea

From research to diagnosis,  
we're with you every step of the way.



### DiaSorin LIAISON® Reagents for LIAISON® and LIAISON® XL Analyzers

DIASORIN INC

Cat. No.	Mfr. No.	Description	Qty.
<b>Bone and mineral metabolism</b>			
<b>B1032-404</b>	310600	LIAISON® 25 OH vitamin D TOTAL assay	100 determinations
<b>B1032-405</b>	310601	LIAISON® 25 OH vitamin D TOTAL assay control set	8 determinations per vial x 2 vials x 2 levels
<b>B1032-603</b>	310603	LIAISON® 25 OH vitamin D TOTAL calibration verifiers	4 vials with 5 mL
<b>B1032-406</b>	310602	LIAISON® 25 OH vitamin D TOTAL specimen diluent	4 vials with 5 mL
<b>Endocrine</b>			
<b>310350*</b>	310350	Direct renin	100 tests
<b>310351*</b>	310351	Direct renin control set	5 determinations per vial x 4 vials x 2 levels
<b>B1032-3913</b>	319133	Endocrinology diluent	4 vials, 4.5 mL each
<b>B1032-400*</b>	310340	hGH kit	100 tests
<b>B1032-401*</b>	310341	hGH control	8 determinations per vial x 2 vials x 2 levels
<b>313231*</b>	313231	IGF-1	100 tests
<b>B1032-003*</b>	310360	Insulin	100 tests
<b>B1032-007*</b>	310361	Insulin control set	15 determinations per vial x 2 vials x 2 levels
<b>Hepatitis</b>			
<b>B1032-880</b>	310200	Anti-HAV	100 tests
<b>B1032-881</b>	310201	Anti-HAV control set	40 determinations x 2 vials x 2 levels
<b>B1032-882*</b>	310210	Anti-HAV IgM	100 tests
<b>B1032-883*</b>	310211	Anti-HAV IgM control set	15 determinations x 2 vials x 2 levels
<b>Infectious disease</b>			
<b>B1032-870</b>	310870	Borrelia burgdorferi	100 tests
<b>B1032-871</b>	310871	Borrelia burgdorferi serum control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-382*</b>	310740	Cytomegalovirus IgG	100 tests
<b>B1032-385*</b>	310741	Cytomegalovirus IgG control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-384*</b>	310750	Cytomegalovirus IgM	100 tests
<b>B1032-386*</b>	310751	Cytomegalovirus IgM control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-540</b>	310540	EA IgG	100 tests
<b>B1032-541</b>	310541	EA IgG control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-376</b>	310520	EBNA IgG	100 tests
<b>B1032-377</b>	310521	EBNA IgG control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-378</b>	310500	EBV IgM	100 tests
<b>B1032-373</b>	310501	EBV IgM control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-497</b>	310830	HSV-1 type specific IgG	100 tests
<b>B1032-492</b>	310831	HSV-1 IgG control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-493</b>	310620	HSV-2 type specific IgG	100 tests
<b>B1032-494</b>	310621	HSV-2 IgG control	40 determinations per vial x 2 vials x 2 levels
<b>B1032-4992</b>	318810	Measles IgG kit	100 tests
<b>B1032-498</b>	318811	Measles IgG control	30 determinations per vial x 2 vials x 2 levels
<b>B1032-4991</b>	318840	Mumps IgG kit	100 tests
<b>B1032-499</b>	318841	Mumps IgG control	30 determinations per vial x 2 vials x 2 levels
<b>B1032-495</b>	310460	Rubella IgG	100 tests
<b>B1032-496</b>	310461	Rubella IgG tri-controls	15 determinations per vial x 2 vials x 3 levels
<b>310730</b>	310730	Rubella IgM kit	100 tests
<b>310732</b>	310732	Rubella IgM controls	20 determinations per vial
<b>B1032-480</b>	310480	Treponema assay	200 tests
<b>B1032-842</b>	310842	Treponema serum control	20 determinations per vial x 2 vials x 2 levels
<b>B1032-374</b>	310510	VCA IgG	100 tests
<b>B1032-375</b>	310511	VCA IgG control	40 determinations per vial x 2 vials x 2 levels

\*Check with your local sales representative for availability on the LIAISON® XL analyzer.

# Analyzers and Supplies

## Immunoassay

### PATHFAST® Cardiac Biomarker Analyzer

VERBATIM AMERICAS LLC - PATHFAST® is an easy-to-use bench-top chemiluminescent immunoassay analyzer that rapidly measures concentrations of critical cardiac markers from a single whole blood sample. Core-lab quality results are available in under 17 minutes, providing quality results quickly and enhancing patient care.



#### Features include:

- Direct measurement from whole blood samples (EDTA or heparin)
- Unaffected by hemolysis up to 1000 mg/dL\*
- Results in less than 17 minutes
- Six parallel channels allow either six samples or six tests for one sample to be run simultaneously or any combination thereof
- All-in-one reagent cartridge eliminates the need for buffer solutions, cuvettes, water connections or drains
- 99th percentile, ACC/AHA/NACB guideline-acceptable core lab-quality Troponin I results available at point-of-care
- Fully-automatic, simple three-step process
- Superior precision at the 99th percentile cutoff even when compared to core laboratory systems\*\*
- Cleared by the FDA for use at point-of-care

#### Test menu:

- cTnI
- D-dimer
- Myoglobin
- CK-MB
- hsCRP
- NTproBNP

\*[https://www.accessdata.fda.gov/cdrh\\_docs/pdf10/K100130.pdf](https://www.accessdata.fda.gov/cdrh_docs/pdf10/K100130.pdf)

\*\*US core laboratory systems only;

[http://www.ifcc.org/media/276661/IFCC%20Troponin%20Tables%20ng\\_L%20DRAFT%20Update%20NOVEMBER%202014.pdf](http://www.ifcc.org/media/276661/IFCC%20Troponin%20Tables%20ng_L%20DRAFT%20Update%20NOVEMBER%202014.pdf)

Cat. No.	Mfr. No.	Description	Qty.
300592	300592	PATHFAST® Cardiac Biomarker analyzer	1/ea

### Supplies for PATHFAST® Cardiac Biomarker Analyzer

VERBATIM AMERICAS LLC

Cat. No.	Mfr. No.	Description	Qty.
PF1121-KA	PF1121-K	CK-MB 60 tests	60/bx
PF1111-KA	PF1111-K	MYO 60 tests	60/bx
PF1101-KA	PF1101-K	CTNL 60 tests	60/bx
PF1061KUSA	PF1061-KUS	NTPROBNP 60 tests	60/bx
PF1071KUSA	PF1071-KUS	HSCRP 60 tests	60/bx
PF1051KUSA	PF1051-KUS	D-Dimer 60 tests	60/bx
300943	300943	Paper rolls	60/bx
300936	300936	Tips	210/bx
300950	300950	Waste box	60/bx



### OC-Auto Micro 80 Analyzer

POLYMEDCO - OC-Auto Micro 80 Analyzer automated FIT is used for detecting gastrointestinal bleeding associated with disorders such as colorectal cancer, polyps and colitis. With the fully automated OC-Auto Micro 80, fecal occult blood analyzers; staff can process 80 tests per hour—and never come in contact with the samples themselves. Easy calibration and automatic serial dilution.

#### Product features:

- 80 samples per hour
- 999 sample memory
- Runs up to 10 samples per rack
- 3 x 1 in. (W x H) LCD display
- Results in eight minutes

Cat. No.	Mfr. No.	Description	Qty.
OCS80	OCS80	OC-Auto Micro 80 analyzer	1/ea

### OC-Auto Sensor Diana Analyzer

POLYMEDCO - Sensor Diana automated FIT is used for detecting gastrointestinal bleeding associated with disorders such as colorectal cancer, polyps and colitis. With the fully automated OC-Auto Sensor Diana fecal occult blood analyzer, staff can process 280 tests per hour—and never come in contact with the samples themselves. Easy calibration and automatic serial dilution.



#### Product Features:

- 280 samples per hour
- 100,000 sample memory
- Auto start/wash/shutdown functions
- Bar coded reagents
- 10.5 in. LCD display

Cat. No.	Mfr. No.	Description	Qty.
MV5F00	MV5F00	OC-Auto Sensor Diana analyzer	1ea



### MAS Bilirubin

THERMO SCIENTIFIC - This assayed, tri-level control has been designed to monitor the performance of total, direct, conjugated, unconjugated and neonatal bilirubin. There is no additional preparation steps required for this liquid, ready-to-use product. An elevated bilirubin is included in level 3 for neonatal applications.

Cat. No.	Mfr. No.	Description	Qty.
BC101	BC101	Level 1, 6 x 5 mL	1/ea
BC102	BC102	Level 2, 6 x 5 mL	1/ea
BC103	BC103	Level 3, 6 x 5 mL	1/ea



### MAS Bilirubin for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014432	10014432	Level 3, 6 x 2 mL	1/ea



### MAS chemTRAK®-H

THERMO SCIENTIFIC - This is a comprehensive multi-analyte control, designed to monitor general chemistry and TDM methods. Available in an assayed or unassayed format. Both formats are liquid, ready-to-use and no additional preparation is required. Assayed values are available for most major platforms.

Cat. No.	Mfr. No.	Description	Qty.
<b>Assayed</b>			
CHA-1	CHA-1	Level 1, 6 x 5 mL	1/ea
CHA-2	CHA-2	Level 2, 6 x 5 mL	1/ea
CHA-3	CHA-3	Level 3, 6 x 5 mL	1/ea
<b>Unassayed</b>			
CHU-1	CHU-1	Level 1, 10 x 15 mL	1/ea
CHU-2	CHU-2	Level 2, 10 x 15 mL	1/ea
CHU-3	CHU-3	Level 3, 10 x 15 mL	1/ea



### MAS chemTRAK®-H Assayed for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014150	10014150	Level 1, 6 x 2 mL	1/ea
10014151	10014151	Level 2, 6 x 2 mL	1/ea
10014152	10014152	Level 3, 6 x 2 mL	1/ea

# Controls

## Chemistry



### MAS CSF

THERMO SCIENTIFIC - This assayed, bi-level control is designed to monitor the performance of quantitative and manual chemical analysis of human cerebrospinal fluid. Multiple oligoclonal bands are present in Level 2. Assayed for major instrument systems as well as for cellulose acetate and agarose gel electrophoresis. These products are liquid, ready-to-use and require no additional preparation.

Cat. No.	Mfr. No.	Description	Qty.
CSF-MP	CSF-MP	Multi-pack, bi-level, 6 x 3.5 mL	1/ea



### MAS CSF for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014444	10014444	Multi-pack, bi-level, 6 x 2 mL	1/ea



### MAS Diabetes for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
DBCL-V	DBCL-V	Multi-pack, bi-level, 6 x 2 mL	1/ea



### MAS PAR TDM

THERMO SCIENTIFIC - This liquid therapeutic drug control is a multi-analyte control with assayed values designed for therapeutic drugs and common immunoassay test procedures on most automated instruments. No additional preparation is required for this liquid, ready-to-use product that offers three significant levels.

Cat. No.	Mfr. No.	Description	Qty.
PTD1-1001A	PTD1-1001	Level 1, 6 x 5 mL	1/ea
PTD2-2002A	PTD2-2002	Level 2, 6 x 5 mL	1/ea
PTD3-3003A	PTD3-3003	Level 3, 6 x 5 mL	1/ea





### MAS UrichemTRAK®

THERMO SCIENTIFIC - UrichemTRAK® is designed to quantitatively monitor the most commonly tested urine chemistry analytes. This liquid, assayed control is ready-to-use, requires no additional preparation and the non-azide formulation will not interfere with ISEs. It includes general chemistry, physical properties and hCG tests.

Cat. No.	Mfr. No.	Description	Qty.
UR11001	UR11001	Level 1, 6 x 5 mL	1/ea
UR22002	UR22002	Level 2, 6 x 5 mL	1/ea
UR-MP	UR-MP	Multi-pack, bi-level, 6 x 5 mL	1/ea



### MAS UrichemTRAK® for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014127	10014127	Multi-pack, bi-level, 6 x 2 mL	1/ea

### Screw Cap Dropper Tips

THERMO SCIENTIFIC - Designed for controls with a screw cap closer. These plastic tips allow the glass vial to be used as a dropper bottle.

Cat. No.	Mfr. No.	Description	Qty.
286-606	286-606	Dropper tips	100/pk



### Standards, Calibrators and Controls

THERMO SCIENTIFIC - Features of standards, calibrators and controls are listed below.

**B5345-32:** Thermo Scientific Clinical Chemistry Standards include standards for ammonia, chloride, HDL cholesterol, cholesterol, copper, glucose, lithium and microprotein.

All standards are manufactured to exacting tolerances and, wherever possible, calibrated against National Institute of Standards and Technology (NIST) materials.

**B5345-33:** Thermo Scientific Data Trol Normal Control Serum is intended for monitoring the accuracy and precision of commonly used clinical chemistry assays.

**B5345-34:** Thermo Scientific Data Trol Abnormal Control Serum is intended for monitoring the accuracy and precision of commonly used clinical chemistry assays.

Cat. No.	Mfr. No.	Description	Qty.
<b>Single-level standards</b>			
B5345-32	TR66901	Lithium	1/ea
<b>Multiconstituent chemistry control sera</b>			
B5345-33	TR40001	Normal control	10/kt
B5345-34	TR41001	Abnormal control	10/kt

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# Controls

## Chemistry



### Dispenser Tips for Crimp Seals and Screw Caps

BIO-RAD LABORATORIES INC - Use these plastic tops for control bottles to allow the glass vial to be used as a dropper bottle to dispense the control. Dispenser tip BR588 is for use with bottles with a metal crimp seal and stopper, while dispenser tip BR987000 should be used with bottles with a screw-cap-type closure.

Cat. No.	Mfr. No.	Description	Qty.
BR588	588	Dispenser tip for crimp seals	50/bg
BR987000	987000	Dispenser tip for screw caps	100/bg

### Liquichek™ Blood Gas Control

BIO-RAD LABORATORIES INC - Aqueous based matrix controls used for monitoring the precision of blood gas measurements of pH, pCO<sub>2</sub> and pO<sub>2</sub> in blood gas instrumentation. Available in three distinct levels with values targeted at varying points within the clinical range. Color coded matrix for easy identification. Four-year shelf life at 18°C to 25°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR571	571	Level 1 - 30 x 1.7 mL	1/pk
BR572	572	Level 2 - 30 x 1.7 mL	1/pk
BR573	573	Level 3 - 30 x 1.7 mL	1/pk

### Liquichek™ Blood Gas Plus CO-Oximeter Control (800 Series)

BIO-RAD LABORATORIES INC - A combination control for use in monitoring the precision of laboratory's measurement of blood gas, ion-selective electrode, biosensor and CO-Oximeter (Siemens 800 series) instrumentation. It is an aqueous matrix containing dyes, glucose and lactate. Can be stored for up to 12 months at 20°C to 25°C. Four-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR504	504	Level 1 - 30 x 1.7 mL	1/pk
BR505	505	Level 2 - 30 x 1.7 mL	1/pk
BR506	506	Level 3 - 30 x 1.7 mL	1/pk

### Liquichek™ Blood Gas Plus E Control

BIO-RAD LABORATORIES INC - An aqueous control designed to monitor the precision of laboratory measurement for pH, pCO<sub>2</sub>, pO<sub>2</sub> and electrolytes on Blood Gas and Ion Selective Electrode (ISE) instrumentation. It has a clear aqueous matrix with extensive insert listings which make this product ideal for use on a wide range of Blood Gas and ISE analyzers. Four-year shelf life at 2°C to 25°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR576	576	Level 1 - 30 x 1.7 mL	1/pk
BR577	577	Level 2 - 30 x 1.7 mL	1/pk
BR578	578	Level 3 - 30 x 1.7 mL	1/pk

### Liquichek™ Blood Gas Plus EGL Control

BIO-RAD LABORATORIES INC - An aqueous control made of a clear matrix and used to monitor the precision of laboratory measurement of pH, pCO<sub>2</sub>, pO<sub>2</sub>, electrolytes, glucose, lactate (lactic acid) and magnesium. Can be stored for up to 12 months at 20°C to 25°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR511	511	Level 1 - 30 x 1.7 mL	1/pk
BR512	512	Level 2 - 30 x 1.7 mL	1/pk
BR513	513	Level 3 - 30 x 1.7 mL	1/pk

**Liquichek™ Lipids Control**

BIO-RAD LABORATORIES INC - These human serum-based, liquid controls provide the laboratory with two distinct analyte levels for lipids analysis. They contain C-reactive protein in levels optimized for high-sensitivity C-reactive protein (hs-CRP) assays. 14-day open-vial stability at 2°C to 8°C. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR641	641	Level 1 - 6 x 3 mL	1/pk
BR642	642	Level 2 - 6 x 3 mL	1/pk

**Liquichek™ Microalbumin Control**

BIO-RAD LABORATORIES INC - Liquid, human urine-based control, designed using human albumin, for monitoring the precision of microalbumin test procedures across a wide range of popular instruments. Control has assayed values available for most test methods. 90-day open-vial stability at 2°C to 8°C. Two-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR378	378	Level 1 - 12 x 10 mL	1/pk
BR379	379	Level 2 - 12 x 10 mL	1/pk
BR374X	374X	Bi-level MiniPak - 2 x 10 mL, 1 of each level	1/pk

**Liquichek™ Pediatric Control**

BIO-RAD LABORATORIES INC - A liquid control designed to monitor the precision of analyte test procedures important to neonatal testing.

Cat. No.	Mfr. No.	Description	Qty.
BR176	176	Level 1 - 6 x 2.5 mL	1/pk
BR177	177	Level 2 - 6 x 2.5 mL	1/pk

**Liquichek™ Pediatric Control**

BIO-RAD LABORATORIES INC - These liquid controls are designed to monitor the precision of analyte test procedures important to neonatal testing. Four Bilirubin parameters are available at two clinically significant levels. Three-month stability when stored unopened at 2°C to 8°C. 14-day open-vial stability at 2°C to 8°C. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR354	354	Level 1 - 6 x 4 mL	1/pk
BR355	355	Level 2 - 6 x 4 mL	1/pk

**Liquichek™ Spinal Fluid Control**

BIO-RAD LABORATORIES INC



Cat. No.	Mfr. No.	Description	Qty.
BR303	303	Level 1 - 6 x 2.5 mL	1/pk
BR304	304	Level 2 - 6 x 2.5 mL	1/pk

**Liquichek™ Therapeutic Drug Monitoring Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls contain a comprehensive menu of therapeutic drugs, as well as many common ligands. It is an assayed control that includes Diazepam and Methotrexate. 180-day unopened-vial stability at 2°C to 8°C and 30-day open-vial stability at 2°C to 8°C for most analytes. Three-year shelf life at -20°C to -70°C.



Cat. No.	Mfr. No.	Description	Qty.
BR725	725	Level 1 - 12 x 5 mL	1/pk
BR726	726	Level 2 - 12 x 5 mL	1/pk
BR727	727	Level 3 - 12 x 5 mL	1/pk
BR724	724	Tri-level - 12 x 5 mL, 4 of each level	1/pk

**Liquichek™ Unassayed Chemistry Control**

BIO-RAD LABORATORIES INC - These comprehensive and stable liquid controls are designed to monitor the precision of general and special chemistry tests. They are human serum-based and usable across most major chemistry instruments. 15-day open-vial stability at 2°C to 8°C for most analytes. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR691	691	Level 1 - 25 x 10 mL	1/pk
BR692	692	Level 2 - 25 x 10 mL	1/pk

**Liquichek™ Urine Chemistry Control**

BIO-RAD LABORATORIES INC - A liquid, bi-level control designed to monitor the precision of urine chemistry testing procedures.



Cat. No.	Mfr. No.	Description	Qty.
BR195	195	Level 1 - 12 x 2.5 mL	1/pk
BR196	196	Level 2 - 12 x 2.5 mL	1/pk

# Controls

## Chemistry

### Liquichek™ Urine Chemistry Control

BIO-RAD LABORATORIES INC - Assayed, liquid human urine based control for pregnancy tests and urine chemistry analytes including Microalbumin.



Cat. No.	Mfr. No.	Description	Qty.
BR397	397	Level 1 - 12 x 10 mL	1/pk
BR398	398	Level 2 - 12 x 10 mL	1/pk



### Liquid Multiquel® Assayed and Unassayed Control

BIO-RAD LABORATORIES INC - These comprehensive, liquid chemistry controls are prepared from human serum. They are available as assayed or unassayed controls in three levels. 30-day thawed and unopened stability at 2°C to 8°C for most analytes. 14-day thawed and opened stability at 2°C to 8°C for most analytes. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
<b>Assayed</b>			
BR694	694	Level 1 - 12 x 3 mL	1/pk
BR695	695	Level 2 - 12 x 3 mL	1/pk
BR696	696	Level 3 - 12 x 3 mL	1/pk
<b>Unassayed</b>			
BR697	697	Level 1 - 12 x 10 mL	1/pk
BR698	698	Level 2 - 12 x 10 mL	1/pk
BR699	699	Level 3 - 12 x 10 mL	1/pk



### Liquichek™ Whole Blood Immunosuppressant Control

BIO-RAD LABORATORIES INC - Liquichek™ Whole Blood Immunosuppressant Control is a liquid, human blood based control to monitor the precision of laboratory test procedures for immunosuppressant drugs including Everolimus. Suitable for immunoassay and chromatographic methods. Levels 2 and 3 also contain Everolimus. Level 4 includes higher concentrations of Everolimus, Tacrolimus, and Cyclosporine, suitable for Cyclosporine C2 monitoring. 14-day open-vial stability at 2°C to 8°C for most analytes. Three year shelf life at -20°C to -70°C.

Cat. No.	Mfr. No.	Description	Qty.
BR12000404	12000404	Level 1 - 6 x 2 mL	1/pk
BR12000405	12000405	Level 2 - 6 x 2 mL	1/pk
BR12000406	12000406	Level 3 - 6 x 2 mL	1/pk
BR12000407	12000407	Level 4 - 6 x 2 mL	1/pk

### Liquid Assayed Multiquel®

BIO-RAD LABORATORIES INC - Assayed, liquid human serum based comprehensive chemistry control with over 60 analytes.

Cat. No.	Mfr. No.	Description	Qty.
BR337	337	Level 1 - 12 x 2.5 mL	1/pk
BR338	338	Level 2 - 12 x 2.5 mL	1/pk
BR339	339	Level 3 - 12 x 2.5 mL	1/pk



### Lyphocheck® Anemia Control

BIO-RAD LABORATORIES INC - This lyophilized, human serum-based control is specifically designed to provide low/deficient values for many analytes specific to anemia, including very low TSH values for ultrasensitive TSH testing. It also includes very low Ferritin, Flatland Vitamin B12 values. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR500	500	Single level - 6 x 3 mL	1/pk

### Lyphocheck® Assayed Chemistry Control

BIO-RAD LABORATORIES INC - These lyophilized, human serum-based controls provide a comprehensive analyte menu and require no special diluent for reconstitution. 30-day frozen reconstituted stability for most analytes. Seven-day reconstituted stability at 2°C to 8°C for most analytes. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR3105	C-310-5	Level 1 - 12 x 5 mL	1/pk
BR3155	C-315-5	Level 2 - 12 x 5 mL	1/pk



**Lyphocheck® Endocrine Control**

BIO-RAD LABORATORIES INC - Assayed, lyophilized human serum based control for plasma catecholamine testing procedures, including HPLC.

Cat. No.	Mfr. No.	Description	Qty.
BR535A	535	Bi-level, 6 of each level - 12 x 10 mL	1/pk

**Lyphocheck® Fertility Control**

BIO-RAD LABORATORIES INC - These lyophilized, human serum-based controls are designed to monitor the precision of test procedures for analytes most frequently assayed during fertility or pregnancy. They contain elevated hCG and hCG-β Subunit levels (around 20,000 mIU/mL) to allow laboratories to check dilution protocols for patient samples. Seven-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
BR481	481	Level 1 - 12 x 5 mL	1/pk
BR482	482	Level 2 - 12 x 5 mL	1/pk
BR483	483	Level 3 - 12 x 5 mL	1/pk
BR480	480	Tri-level - 12 x 5 mL, 4 of each level	1/pk

**Lyphocheck® Hypertension Markers Control**

BIO-RAD LABORATORIES INC - This lyophilized, tri-level control is designed to monitor the precision of test procedures for Renin and other analytes associated with hypertension disorders. 21-day reconstituted stability at 2°C to 8°C for most analytes. Two-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
BR600	600	Tri-level - 6 x 2 mL, 2 of each level	1/pk

**Lyphocheck® Maternal Serum Control**

BIO-RAD LABORATORIES INC - This lyophilized, human serum-based control contains analytes to monitor the precision of maternal serum analysis frequently performed during triple marker screening. It contains very elevated hCG and hCG-β Subunit (approximately 100,000 mIU/mL) and very low levels of Free Estriol and AFP. 10-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C.

Cat. No.	Mfr. No.	Description	Qty.
BR220	220	Tri-level - 6 x 5 mL, 2 of each level	1/pk

**Lyphocheck® Quantitative Urine Control**

BIO-RAD LABORATORIES INC - These lyophilized, human urine-based controls contain a comprehensive analyte menu for quantitative assays that monitor the precision of test methods for general urine chemistry, biogenic amines and hormones testing. They also contain hCG (for qualitative pregnancy tests) and Microalbumin. 28-month shelf life at 2°C to 8°C for all analytes. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
BR376	376	Normal - 12 x 10 mL	1/pk
BR377	377	Abnormal - 12 x 10 mL	1/pk

**Lyphocheck® Therapeutic Drug Monitoring Control**

BIO-RAD LABORATORIES INC - These lyophilized, human serum-based controls offer an extensive menu of therapeutic drugs and thyroid analytes, with assayed values provided for a comprehensive list of TDM instruments and methods. They contain over 40 analytes, which includes Methotrexate. 30-day open-vial stability at 2°C to 8°C for most analytes. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
BR451	451	Level 1 - 12 x 5 mL	1/pk
BR452	452	Level 2 - 12 x 5 mL	1/pk
BR453	453	Level 3 - 12 x 5 mL	1/pk
BR450	450	Tri-level - 12 x 5 mL, 4 of each level	1/pk

**Lyphocheck® Unassayed Chemistry Control (Human)**

BIO-RAD LABORATORIES INC - These lyophilized, human serum-based controls provide a comprehensive analyte menu and good stability for enzymes and CO<sub>2</sub>. They require no special diluent and are compatible with most major instruments and methodologies. 30-day frozen reconstituted stability at -10°C to -20°C for most analytes. Seven-day reconstituted stability at 2°C to 8°C for most analytes. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot. Available in 5mL and 10mL fill sizes.

Cat. No.	Mfr. No.	Description	Qty.
BR731	731	Level 1 - 25 x 5 mL	1/pk
BR732	732	Level 2 - 25 x 5 mL	1/pk
BRC32010	C-320-10	Level 1 - 50 x 10 mL	1/pk
BRC32510	C-325-10	Level 2 - 50 x 10 mL	1/pk



# Controls

## Chemistry

### Lyphocheck® Whole Blood Control

BIO-RAD LABORATORIES INC - These human whole blood-based controls are designed to monitor the precision of test methods for red cell folate and lead in whole blood. They are assayed at three critical levels and contain lead assay values for Atomic Absorption (AA), Anodic Stripping Voltammetry (ASV) and Isotope Dilution Mass Spectroscopy (IDMS). Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR561	561	Level 1 - 6 x 2 mL	1/pk
BR562	562	Level 2 - 6 x 2 mL	1/pk
BR563	563	Level 3 - 6 x 2 mL	1/pk

### Lyphocheck® Whole Blood Immunosuppressant Control

BIO-RAD LABORATORIES INC - This lyophilized, whole blood-based control is used for monitoring the precision of immunosuppressant drug testing procedures. It has five levels, containing the three immunosuppressant drugs most prescribed worldwide. This product has assayed values for most test methods so the laboratory is able to monitor the entire assay range. It contains five individual levels that range from low to very high analyte concentrations. 14-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Peer group reports available through Unity™ Interlaboratory Program.



Cat. No.	Mfr. No.	Description	Qty.
BR274	274	Level 1 - 6 x 2 mL	1/pk
BR275	275	Level 2 - 6 x 2 mL	1/pk
BR276	276	Level 3 - 6 x 2 mL	1/pk
BR277	277	Level 4 - 6 x 2 mL	1/pk
BR278	278	Level 5 - 6 x 2 mL	1/pk

### Meter Trax™ Control

BIO-RAD LABORATORIES INC - These whole blood-based controls are used for Glucose, Hemoglobin and Hematocrit testing on point-of-care instruments. 31-day stability for Glucose and Hemoglobin at 2°C to 25°C after opening. 31-day stability for Hematocrit at 2°C to 8°C after opening. Six-month shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR971	971	Low level - 6 x 2 mL	1/pk
BR972	972	Mid level - 6 x 2 mL	1/pk
BR973	973	High level - 6 x 2 mL	1/pk
BR970X	970X	Tri-level minipak - 3 x 2 mL, 1 of each level	1/pk
BR970	970	Tri-level - 6 x 2 mL, 2 of each level	1/pk

### Cal Ver LQ Blood Gas

AUDIT MICROCONTROLS - Available as liquid.

- BUN
- Chloride
- Creatinine
- Glucose
- Ionized Calcium
- Lactate
- pCO<sub>2</sub>
- pH
- pO<sub>2</sub>
- Potassium Chloride
- Sodium

Cat. No.	Mfr. No.	Description	Qty.
K727M5	K727M5	15 x 2 mL	1/ea

### Control LQ Homocysteine

AUDIT MICROCONTROLS - Available as liquid.

- Homocysteine

Cat. No.	Mfr. No.	Description	Qty.
K020M-6A	K020M-6	6 x 2 mL	1/kt

### Linearity FD General Chemistry

AUDIT MICROCONTROLS - Available as freeze-dried.

- Albumin
- Alkaline Phosphatase
- ALT/SGPT
- Amylase
- AST/SGOT
- Bilirubin, Direct
- Bilirubin, Total
- BUN
- Calcium
- Chloride
- Cholesterol, Total
- CO<sub>2</sub>
- Creatine Kinase (CK)
- Creatinine
- Gamma-GT
- Glucose
- HDL Cholesterol
- Iron, Total
- Lactate
- LDH
- LDL Cholesterol
- Lipase
- Magnesium
- Osmolality
- Phosphorus
- Potassium
- Sodium
- Total Protein
- Triglyceride
- Uric Acid

Cat. No.	Mfr. No.	Description	Qty.
K701M-5	K701M-5	5 x 5 mL plus diluent	1/ea

### Linearity FD Lipids

AUDIT MICROCONTROLS - Available as freeze-dried.

- Apolipoprotein A1
- Apolipoprotein B
- Cholesterol, Total
- HDL Cholesterol
- LDL Cholesterol
- Triglyceride

Cat. No.	Mfr. No.	Description	Qty.
K709M-5	K709M-5	5 x 2 mL	1/ea

### Linearity FD TDM Siemens Centaur

AUDIT MICROCONTROLS - Available as freeze-dried.

- Carbamazepine (Tegretol)
- Digoxin
- Gentamicin
- Phenobarbital
- Phenytoin (Dilantin)
- Theophylline
- Tobramycin
- Valproic Acid
- Vancomycin

Cat. No.	Mfr. No.	Description	Qty.
K802M-5	K802M-5	5 x 5 mL	1/ea

### Chemistry Controls

AZER SCIENTIFIC - Azer Scientific offers an economical solution to chemistry controls for many popular chemistry analyzers.

Cat. No.	Mfr. No.	Description	Qty.
<b>ES-1006P</b>	ES-1006P	Level 1 QC protein blood gas ISE	30/pk
<b>ES-1008P</b>	ES-1008P	Level 3 QC protein blood gas ISE	30/pk



### Calibrators and Controls - Chemistry

JAS - These calibrators and controls are suitable for use on any open system chemistry analyzer using JAS reagents. Store at 2°C to 8°C.

Cat. No.	Mfr. No.	Description	Qty.
<b>FRUC-2</b>	FRUC-2	Fructosamine control set, 2 levels x 2 mL	1/kt
<b>JDCAL1-5</b>	CAL1-5	Multichemistry calibrator, 10 x 5 mL	1/kt
<b>JDCON1-5</b>	CON1-5	Multichemistry control level 1, 10 x 5 mL	1/kt
<b>JDCON2-5</b>	CON2-5	Multichemistry control level 2, 10 x 5 mL	1/kt

### General Chemistry Controls

NOVA-ONE DIAGNOSTICS - This control is designed to monitor general chemistry analyte testing methods. It is liquid, ready-to-use and requires no reconstitution and contains all analytes for all available Abaxis Piccolo XPress and Classic panels.



Cat. No.	Mfr. No.	Description	Qty.
<b>G14026-100</b>	G14026-100	Bi-level combo kit, 12 vials	1/kt



### Verification Sample Kits

NOVA-ONE DIAGNOSTICS - These low-interference, ready-to-use liquid verification samples require no reconstitution and contain all analytes for every available Abaxis Piccolo XPress and Classic panel.

Cat. No.	Mfr. No.	Description	Qty.
<b>G14033-050</b>	G14033-050	Tri-level, 3 x ½ mL, 9 vials	1/kt

### Bilirubin Controls – Pediatric

QUANTIMETRIX - Bilirubin Control/Pediatric monitors the performance of neonatal bilirubin assay methods including Reichert Unistat® and Advanced® Instruments BR2 Bilirubin Stat-Analyzer™ Model bilirubinometers and all automated bilirubin methods for popular instruments including: AU® Series, Dimension®, Vitros®, Architect®, Cobas® and Advia®. It features liquid human protein matrix, neonatal bilirubin levels up to 20 mg/dL, 2-year refrigerated shelf life from date of manufacture and a 21-day open vial stability when stored at 2°C–8°C.\*



\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.

Cat. No.	Mfr. No.	Description	Qty.
<b>1331-31</b>	1331-31	Bilirubin - Level 1 - 3 mL	3/bx
<b>1332-31</b>	1332-31	Bilirubin - Level 2 - 3 mL	3/bx

### Dropper® Spinal Fluid Controls

QUANTIMETRIX - Dropper® Spinal Fluid Control monitors the performance of spinal fluid chemistry assay methods. This liquid human protein matrix comes in easy-to-use dropper bottles, with a 2-year refrigerated shelf life from date of manufacture and 90-day open vial stability when stored at 2°C–8°C. Designed for use with most major chemistry analyzers and nephelometers: Dimension®, AU® series, Architect, Cobas and Pyrogallol Red microprotein methods.\*



\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.

Cat. No.	Mfr. No.	Description	Qty.
<b>1451-31</b>	1451-31	Spinal Fluid - Level 1 - 3 mL	3/bx
<b>1452-31</b>	1452-31	Spinal Fluid - Level 2 - 3 mL	3/bx

### Dropper® Urine Chemistry Controls

QUANTIMETRIX - Dropper® Urine Chemistry Control monitors the performance of routine and stat urine chemistry assay methods. Comes in an easy-to-use dropper bottle for simple dispensing and maximum use and has a 2-year shelf life and open vial stability when stored at 2°C–8°C. It is designed for use with most major chemistry analyzers including Advia®, AU® Series, Cobas®, Dimension®, Vista, Synchron® and Architect, as well as for the Pyrogallol Red microprotein method and osmolality (freezing point method).\*



\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.

Cat. No.	Mfr. No.	Description	Qty.
<b>3 x 10 mL</b>			
<b>1431-31</b>	1431-31	Dropper UCC - Level 1 - 10 mL	3/bx
<b>1432-31</b>	1432-31	Dropper UCC - Level 2 - 10 mL	3/bx
<b>3 x 25 mL</b>			
<b>1431-32</b>	1431-32	Dropper UCC - Level 1 - 25 mL	3/bx
<b>1432-32</b>	1432-32	Dropper UCC - Level 2 - 25 mL	3/bx



# Controls

## Chemistry

### Sweat Control for Cystic Fibrosis Testing

QUANTIMETRIX® Sweat Control liquid simulated human sweat matrix monitors the performance of cystic fibrosis assay methods. The control has extended stability for convenience and less waste. It features a 5-year refrigerated shelf life from date of manufacture and a 3-month open vial stability when stored at 2°C–8°C. Designed for use with Chloridometer, Osmometer, Sweat-Chek™ conductivity, Dimension®, Advia and Hitachi.\*

\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.



Cat. No.	Mfr. No.	Description	Qty.
Q1190-01	1190-01	Sweat Control - 3 level set - 3 mL	9/bx

### CVC 123 Calibration Verification Controls

RNA MEDICAL - CVC 123 is an assayed quality control material used for confirming the calibration and linearity of blood gas, electrolyte and metabolite instrumentation.

Cat. No.	Mfr. No.	Description	Qty.
B6639-16B1	CVC123	Multi-level blood gas kit (20 amps x 2.5 mL, 4 amps each level)	1/bx
B6639-16B2	CVC223	Multi-level CO-Oximeter kit (20 amps x 1.2 mL, 4 amps each level)	1/bx



### CC 527 Blood Gas • Electrolyte • CO-Oximeter (ITC AVOXimeter) Control

RNA MEDICAL - CC 527 is an assayed quality control material used for monitoring the performance of blood gas, electrolyte and CO-Oximeter instrumentation. It is for specific use on ITC AVOXimeter 1000E and 4000 CO-Oximeters and the ITC IRMA TRUpoint®. CC 527 is available in three levels for monitoring analyzer performance at varying points within the clinical range.

Cat. No.	Mfr. No.	Description	Qty.
B6639-17B1	CC527-1	Level 1 (30 amps x 2.5 mL)	1/bx
B6639-17B2	CC527-2	Level 2 (30 amps x 2.5 mL)	1/bx
B6639-17B3	CC527-3	Level 3 (30 amps x 2.5 mL)	1/bx
B6639-17	CC527	Multi-level (30 amps x 2.5 mL, 10 amps each level)	1/bx





### MAS CardiolImmune® XL

THERMO SCIENTIFIC - This multi-analyte control is designed to monitor serum cardiac marker test methods. No additional preparation is required for this liquid, ready-to-use product. It offers four distinct levels, and is also available in a tri-level multi-pack.

Cat. No.	Mfr. No.	Description	Qty.
CAI-XLL	CAI-XLL	Level L, 6 x 3 mL	1/ea
CAI-XL1	CAI-XL1	Level 1, 6 x 3 mL	1/ea
CAI-XL2	CAI-XL2	Level 2, 6 x 3 mL	1/ea
CAI-XL3	CAI-XL3	Level 3, 6 x 3 mL	1/ea
M5980-4	CAI-XL4	Multi-pack, tri-level, 6 x 3 mL	1/ea



### MAS CardiolImmune® XL for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014179	10014179	Level L, 6 x 2 mL	1/ea
10014180	10014180	Level 1, 6 x 2 mL	1/ea
10014181	10014181	Level 2, 6 x 2 mL	1/ea
10014182	10014182	Level 3, 6 x 2 mL	1/ea



### MAS Diabetes

THERMO SCIENTIFIC - This liquid assayed diabetes control is a bi-level control designed to monitor hemoglobin A1c methods. Assayed for most major instrument systems. The liquid, ready-to-use product requires no additional preparation.

Cat. No.	Mfr. No.	Description	Qty.
DBCL-MP	DBCL-MP	Multi-pack, bi-level, 6 x 1 mL	1/ea



### MAS Immunology

THERMO SCIENTIFIC - This multi-analyte immunology liquid assayed control is designed to monitor the performance of various serum protein and serology test procedures including Antistreptolysin O, C-Reactive Protein, Prealbumin and Rheumatoid Factor. It is assayed for major instrument systems and is ready-to-use, requiring no additional preparation. Three levels provide monitoring of the full assay range.

Cat. No.	Mfr. No.	Description	Qty.
IC-101	IC-101	Level 1, 6 x 3 mL	1/ea
IC-202	IC-202	Level 2, 6 x 3 mL	1/ea
IC-303	IC-303	Level 3, 6 x 3 mL	1/ea

# Controls

## Immunoassay



### MAS Immunology for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
IC-V1	IC-V1	Level 1, 6 x 2 mL	1/ea
IC-V2	IC-V2	Level 2, 6 x 2 mL	1/ea
IC-V3	IC-V3	Level 3, 6 x 2 mL	1/ea



### MAS Liquimmune®

THERMO SCIENTIFIC - This multi-analyte immunoassay control is liquid based and designed to monitor immunoassay test procedures on automated instruments. Provides coverage of fertility, thyroid, iron deficiency, endocrine and allergy parameters. Assayed values are provided for major instrument systems.

Cat. No.	Mfr. No.	Description	Qty.
LIG-101	LIG-101	Level 1, 6 x 5 mL	1/ea
LIG-202	LIG-202	Level 2, 6 x 5 mL	1/ea
LIG-303	LIG-303	Level 3, 6 x 5 mL	1/ea



### MAS Liquimmune® for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10013876	10013876	Level 1, 6 x 2 mL	1/ea
10013877	10013877	Level 2, 6 x 2 mL	1/ea
10013878	10013878	Level 3, 6 x 2 mL	1/ea



### MAS Omni-CORE™ Assayed

THERMO SCIENTIFIC - Thermo Scientific™ MAS Omni-CORE control consolidates general chemistry serum protein QC processing into a single product, offering three distinct levels. Value assignment is provided for key integrated instrument systems, including Abbott Architect, Beckman Coulter AU, Synchron and UniCel, Ortho Clinical Diagnostics Vitros®, Roche Cobas and Elecsys systems and Siemens Advia, Dimension and Dimension Vista.

Cat. No.	Mfr. No.	Description	Qty.
OCR-101	OCR-101	Level 1, 6 x 5 mL	1/ea
OCR-202	OCR-102	Level 2, 6 x 5 mL	1/ea
OCR-303	OCR-103	Level 3, 6 x 5 mL	1/ea



### MAS Omni-IMMUNE™

THERMO SCIENTIFIC - Thermo Scientific™ MAS Omni-IMMUNE and Omni-IMMUNE PRO controls provide consolidation for routine immunoassay, tumor marker and specialty immunoassay QC processing into a single product, offering three distinct levels. Value assignment is provided for key integrated instrument systems including Abbott Architect, Beckman Coulter Access and UniCel, Ortho Clinical Diagnostics Vitros®, Roche Cobas and Elecsys systems and Siemens Centaur, Dimension, Dimension Vista and Immulite.

Cat. No.	Mfr. No.	Description	Qty.
<b>Omni-IMMUNE assayed</b>			
OIM-101	OIM-101	Level 1, 6 x 5 mL	1/ea
OIM-202	OIM-202	Level 2, 6 x 5 mL	1/ea
OIM-303	OIM-303	Level 3, 6 x 5 mL	1/ea
<b>Omni-IMMUNE PRO assayed</b>			
OPRO-101	OPRO-101	Level 1, 6 x 5 mL	1/ea
OPRO-202	OPRO-202	Level 2, 6 x 5 mL	1/ea
OPRO-303	OPRO-303	Level 3, 6 x 5 mL	1/ea



### MAS PTH Control

THERMO SCIENTIFIC - PTH (Parathyroid Hormone) is commonly tested to assess calcium regulation in blood. The MAS PTH Control offers three distinct PTH levels for evaluation of automated PTH methods across the assay range. Provided in a liquid format for ease of use, the MAS PTH Control offers 10 days open vial stability when stored at 2°C to 8°C. Value assignment is provided for the key automated PTH methods available in today's clinical laboratory.

Cat. No.	Mfr. No.	Description	Qty.
PTH-MP	PTH-MP	Multi-pack, tri-level, 6 x 3 mL	1/ea



### MAS T-Marker

THERMO SCIENTIFIC - This liquid, assayed, multi-analyte control is designed to monitor performance of various cancer antigen tests on automated instruments, such as Abbott Architect®, Beckman Access/Dxl®, Ortho Vitros ECI®, Roche Modular Elecsys®, Siemens Advia Centaur® and Immulite® and Tosoh AIA 600II®. No additional preparation steps are required for these ready-to-use products.

Cat. No.	Mfr. No.	Description	Qty.
TUM-101	TUM-101	Level 1, 6 x 3 mL	1/ea
TUM-202	TUM-202	Level 2, 6 x 3 mL	1/ea
TUM-303	TUM-303	Level 3, 6 x 3 mL	1/ea

### Liquichek™ Anti-RNP Control

BIO-RAD LABORATORIES INC - Unassayed, liquid, pre-diluted human serum based positive control to monitor Ribonucleoprotein (RNP) autoantibodies using IFA procedures.

Cat. No.	Mfr. No.	Description	Qty.
BR116A	116	Anti-RNP, positive - 2 x 0.5 mL	1/pk



### Liquichek™ Anti-Scl-70 Control

BIO-RAD LABORATORIES INC - Unassayed, liquid, pre-diluted human serum based positive control to monitor Scl-70 autoantibodies using IFA procedures.

Cat. No.	Mfr. No.	Description	Qty.
BR117A	117	Anti-Scl-70, positive - 2 x 0.5 mL	1/pk



# Controls

## Immunoassay

### Liquichek™ Anti-Sm Control

BIO-RAD LABORATORIES INC - Unassayed, liquid, pre-diluted human serum based positive control to monitor Smith (Sm) autoantibodies using IFA procedures.

Cat. No.	Mfr. No.	Description	Qty.
BR115A	115	Anti-Sm, positive - 2 x 0.5 mL	1/pk



### Liquichek™ Anti-SS-A and Anti-SS-B Controls

BIO-RAD LABORATORIES INC - Unassayed, liquid, pre-diluted human serum based positive control to monitor SS-A and SS-B autoantibodies using IFA procedures.

Cat. No.	Mfr. No.	Description	Qty.
BR114A	114	Anti-SS-A, positive - 2 x 0.5 mL	1/pk
BR113A	113	Anti-SS-B, positive - 2 x 0.5 mL	1/pk



### Liquichek™ Autoimmune Controls

BIO-RAD LABORATORIES INC - These are individual controls for monitoring the precision of autoimmune assays using indirect immunofluorescence (IFA). They are liquid and human serum-based controls. Six-month open-vial stability at 2°C to 8°C. Two-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR107	107	ANA control, homogeneous pattern - 3 x 0.5 mL	1/bx
BR108A	108	ANA control, speckled pattern - 3 x 0.5 mL	1/bx
BR111	111	ANA control, nucleolar pattern - 3 x 0.5 mL	1/bx
BR112	112	ANA control, centromere pattern - 3 x 0.5 mL	1/bx
BR118A	118	ANA control, mitotic spindle pattern - 2 x 0.5 mL	1/pk
BR119	119	Anti-nDNA control - 3 x 0.5 mL	1/bx
BR127	127	Anti-mitochondrial control - 3 x 0.5 mL	1/bx
BR129	129	Anti-smooth muscle control - 3 x 0.5 mL	1/bx
BR130	130	Autoimmune negative control - 3 x 0.5 mL	1/bx
BR131	131	ANA controls set, positive (homogenous, speckled, centromere and nucleolar patterns) - 4 x 0.5 mL	1/bx

### Liquichek™ Cardiac Markers Control LT

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls have assayed values for various Roche systems. They are cardiac assessment controls designed to monitor the precision of test procedures at lower Troponin T levels. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR646	646	Level 1 - 6 x 3 mL	1/pk
BR647	647	Level 2 - 6 x 3 mL	1/pk
BR648	648	Level 3 - 6 x 3 mL	1/pk
BR645	645	Tri-level - 6 x 3 mL, 2 each of level	1/pk

### Liquichek™ Cardiac Markers Control LT, Level Low

BIO-RAD LABORATORIES INC - This is a liquid, human serum-based control. It is a cardiac assessment control designed to monitor the precision at low Troponin I levels. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR649	649	Level low - 6 x 3 mL	1/pk

### Liquichek™ Cardiac Markers Plus Control

BIO-RAD LABORATORIES INC - These comprehensive cardiac assessment controls are designed to monitor precision of test procedure across a wide range of Troponin target values. They are liquid, human serum-based controls and have assayed values for multiple systems, including values for Troponin T and hs-CRP. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR181	181	Level 1 - 6 x 3 mL	1/pk
BR182	182	Level 2 - 6 x 3 mL	1/pk
BR183	183	Level 3 - 6 x 3 mL	1/pk
BR180X	180X	Tri-level minipak - 3 x 3 mL, 1 of each level	1/pk
BR180	180	Tri-level - 6 x 3 mL, 2 of each level	1/pk



**Liquichek™ Cardiac Markers Plus Control LT**

BIO-RAD LABORATORIES INC - Liquid, human serum based, comprehensive cardiac assessment control designed to monitor precision at lower Troponin values, assayed and in vials for Dimension Vista®.



Cat. No.	Mfr. No.	Description	Qty.
BR297	297	Level 1C - 6 x 2.5 mL	1/pk
BR298	298	Level 2 - 6 x 2.5 mL	1/pk
BR299	299	Level 3 - 6 x 2.5 mL	1/pk

**Liquichek™ Cardiac Markers Plus Control LT**

BIO-RAD LABORATORIES INC - These comprehensive cardiac assessment controls are designed to monitor precision of test methods for lower Troponin target values. They are liquid, human serum-based controls and have assayed values for multiple systems, including values for Troponin T and hs-CRP. These controls provide a choice of four low Troponin I levels (1, 1A, 1B and 1C) and the Level Low control offers lower target values for analytes other than Troponin I. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.

Cat. No.	Mfr. No.	Description	Qty.
BR146X	146X	Level 1 minipak - 1 x 3 mL	1/pk
BR146	146	Level 1 - 6 x 3 mL	1/pk
BR27104X	27104X	Level 1A minipak - 1 x 3 mL	1/pk
BR27104	27104	Level 1A - 6 x 3 mL	1/pk
BR27105X	27105X	Level 1B minipak - 1 x 3 mL	1/pk
BR27105	27105	Level 1B - 6 x 3 mL	1/pk
BR27106X	27106X	Level 1C minipak - 1 x 3 mL	1/pk
BR27106	27106	Level 1C - 6 x 3 mL	1/pk
BR147X	147X	Level 2 minipak - 1 x 3 mL	1/pk
BR147	147	Level 2 - 6 x 3 mL	1/pk
BR148X	148X	Level 3 minipak - 1 x 3 mL	1/pk
BR148	148	Level 3 - 6 x 3 mL	1/pk
BR149X	149X	Level low minipak - 1 x 3 mL	1/pk
BR149	149	Level low - 6 x 3 mL	1/pk

**Liquichek™ CK/LD Isoenzyme Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls are used to monitor the precision of Isoenzyme and Protein Electrophoresis test procedures. It is a bi-level control assayed for multiple instruments, including most methods and immunoinhibition kits. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR671	671	Level 1 - 6 x 1 mL	1/pk
BR672	672	Level 2 - 6 x 1 mL	1/pk

**Liquichek™ Diabetes Control**

BIO-RAD LABORATORIES INC - This liquid, human whole blood-based control is designed to monitor the precision of hemoglobin tests associated with diabetes monitoring, including Hemoglobin A1C and Total Hemoglobin. It is available in three critical levels and has value assignment listings for over 30 methods. There is a higher third level to monitor your assay range. 60-day open-vial stability at 2°C to 8°C. Six-month shelf life at 2°C to 8°C. Three-year shelf life at -10°C to -70°C.



Cat. No.	Mfr. No.	Description	Qty.
BR171	171	Level 1 - 6 x 1 mL	1/bx
BR172	172	Level 2 - 6 x 1 mL	1/bx
BR173	173	Level 3 - 6 x 1 mL	1/bx
BR172X	172X	Tri-level minipak - 3 x 1 mL, 1 of each level	1/pk

**Liquichek™ Diabetes Control**

BIO-RAD LABORATORIES INC - Assayed, liquid, human whole blood based control for monitoring the precision of Hemoglobin A1C associated with diabetes.



Cat. No.	Mfr. No.	Description	Qty.
BR291	291	Level 1 - 6 x 2 mL	1/pk
BR292	292	Level 2 - 6 x 2 mL	1/pk
BR293	293	Level 3 - 6 x 2 mL	1/pk

# Controls

## Immunoassay



### Liquichek™ D-Dimer Control

BIO-RAD LABORATORIES INC - A liquid, four level, human plasma based, single analyte D-dimer control, assayed for coagulation, chemistry and immunoassay analyzers.

Cat. No.	Mfr. No.	Description	Qty.
BR27101	27101	Level 1 - 6 x 1 mL	1/pk
BR27102	27102	Level 2 - 6 x 1 mL	1/pk
BR27103	27103	Level 3 - 6 x 1 mL	1/pk
BR27100	27100	Low level - 6 x 1 mL	1/pk
BR27102X	27102X	Four level minipak - 4 x 1 mL, 1 of each level	1/pk

### Liquichek™ Elevated CRP Control

BIO-RAD LABORATORIES INC - Liquid, human serum-based controls with elevated levels of C-reactive protein. They contain target CRP levels of 15, 90 and 180 mg/L. 30-day open-vial stability at 2°C to 8°C. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR254	254	Level 1 - 12 x 1 mL	1/pk
BR255	255	Level 2 - 12 x 1 mL	1/pk
BR256	256	Level 3 - 12 x 1 mL	1/pk
BR255X	255X	Tri-level minipak - 3 x 1 mL, 1 of each level	1/pk

### Liquichek™ Homocysteine Control

BIO-RAD LABORATORIES INC - This tri-level homocysteine control can be used on multiple platforms. It is a liquid, human serum-based control designed to monitor the precision of homocysteine test procedures across a wide range of target values. It can be used for method such as HPLC and automated immunoassays. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR287	287	Level 1 - 6 x 1 mL	1/pk
BR288	288	Level 2 - 6 x 1 mL	1/pk
BR289	289	Level 3 - 6 x 1 mL	1/pk

### Liquichek™ Immunology Control

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls contain a comprehensive menu of 32 analytes with values provided for an extensive selection of widely used test methods. 30-day open-vial stability at 2°C to 8°C for most analytes. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR591	591	Level 1 - 6 x 1 mL	1/pk
BR592	592	Level 2 - 6 x 1 mL	1/pk
BR593	593	Level 3 - 6 x 1 mL	1/pk
BR594	594	Level 1 - 6 x 3 mL	1/pk
BR595	595	Level 2 - 6 x 3 mL	1/pk
BR596	596	Level 3 - 6 x 3 mL	1/pk

### Liquichek™ Immunology Control

BIO-RAD LABORATORIES INC - Assayed, liquid human serum based control for monitoring precision of Siemens Dimension Vista® for analytes listed in insert.



Cat. No.	Mfr. No.	Description	Qty.
BR281A	281	Level 1 - 6 x 2.5 mL	1/pk
BR282A	282	Level 2 - 6 x 2.5 mL	1/pk
BR283A	283	Level 3 - 6 x 2.5 mL	1/pk

### Liquichek™ Immunoassay Plus Control

BIO-RAD LABORATORIES INC - Assayed, liquid human serum based control to monitor precision of Siemens Dimension Vista® for analytes listed in Insert.



Cat. No.	Mfr. No.	Description	Qty.
BR267	267	Level 1 - 12 x 2.5 mL	1/pk
BR268	268	Level 2 - 12 x 2.5 mL	1/pk
BR269	269	Level 3 - 12 x 2.5 mL	1/pk

**Liquichek™ Immunoassay Plus Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls are designed for convenience in today's busy immunoassay laboratory. With a comprehensive analyte menu, they can replace two or more separate control products for immunoassay and therapeutic drug monitoring procedures. Assayed values are available for most automated immunoassay analyzers. 14-day open-vial stability at 2°C to 8°C for most analytes. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR361	361	Level 1 - 12 x 5 mL	1/pk
BR362	362	Level 2 - 12 x 5 mL	1/pk
BR363	363	Level 3 - 12 x 5 mL	1/pk
BR360	360	Tri-level - 12 x 5 mL, 4 of each level	1/pk

**Liquichek™ Rheumatoid Factor Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls are designed to monitor rheumatoid factor testing procedures, including nephelometric and latex agglutination methods. 30-day open-vial stability at 2°C to 8°C. Two-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR501	501	Level 1 - 6 x 2 mL	1/pk
BR502	502	Level 2 - 6 x 2 mL	1/pk
BR503	503	Level 3 - 6 x 2 mL	1/pk
BR502X	502X	Tri-level minipak - 3 x 2 mL, 1 of each level	1/pk

**Liquichek™ Specialty Immunoassay Control**

BIO-RAD LABORATORIES INC - These unique, liquid assayed controls are designed to complement the popular Lyphochek® and Liquichek™ Immunoassay Plus Controls. They are specially formulated to include more complex analytes and provide excellent open-vial stability. The controls are human serum-based and include Intact PTH, 25-OH Vitamin D, Anti-Tg and Anti-TPO. Assayed values are available for both automated and manual methods. 30-day open-vial stability at 2°C to 8°C for most analytes. Refer to the package insert for analyte claims and stability information. Unity™ QC program available for interlaboratory comparisons.



Cat. No.	Mfr. No.	Description	Qty.
BR359	359	Level LTA - 6 x 5 mL	1/pk
BR364	364	Level 1 - 6 x 5 mL	1/pk
BR365	365	Level 2 - 6 x 5 mL	1/pk
BR366	366	Level 3 - 6 x 5 mL	1/pk
BR359X	359X	Four-level minipak - 4 x 5 mL, 1 of each level	1/pk

**Liquichek™ Spinal Fluid Control**

BIO-RAD LABORATORIES INC - These liquid, bi-level controls are designed to monitor the precision of automated and manual procedures for proteins and other critical analytes assayed in cerebrospinal fluid. They contain oligoclonal banding in Level 2. 30-day open-vial stability at 2°C to 8°C. Two-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR751	751	Level 1 - 6 x 3 mL	1/pk
BR752	752	Level 2 - 6 x 3 mL	1/pk

**Liquichek™ ToRCH Plus Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls are designed to monitor the precision of the most widely used serology instruments and methods. A positive and a negative control allow you to monitor the performance of your test system at the critical decision-making levels. Positive and negative controls are packaged separately. 60-day open-vial stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR239X	239X	Positive minipak - 1 x 3 mL	1/pk
BR239	239	Positive - 3 x 3 mL	1/pk
BR228X	228X	Negative minipak - 1 x 3 mL	1/pk
BR228	228	Negative - 3 x 3 mL	1/pk

**Liquichek™ ToRCH Plus IgM Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls are designed to monitor the precision of immunoassay methods to detect IgM antibodies to ToRCH panel analytes. They are unassayed and contain positive and negative controls, which are packaged separately. 60-day open-vial stability at 2°C to 8°C. Three-year shelf life at -20°C to -70°C. Refer to the package insert for analyte claims and stability information.



Cat. No.	Mfr. No.	Description	Qty.
BR229	229	Positive - 3 x 2 mL	1/pk
BR230	230	Negative - 3 x 2 mL	1/pk



# Controls

## Immunoassay

### Liquichek™ Tumor Marker Control

BIO-RAD LABORATORIES INC - Liquid, human serum-based control for monitoring the precision of tumor marker testing procedures. This control features 17 cancer antigens and common tumor markers. It contains very high levels of cancer antigens (CA) and Ferritin, as well as a very low PSA level for highly sensitive PSA test methods. 30-day open-vial stability at 2°C to 8°C for most analytes. Two-year shelf life when stored frozen (-20° to -70°C).



Cat. No.	Mfr. No.	Description	Qty.
BR547	547	Level 1 - 6 x 2 mL	1/pk
BR548	548	Level 2 - 6 x 2 mL	1/pk
BR549	549	Level 3 - 6 x 2 mL	1/pk
BR548X	548X	Tri-level minipak - 3 x 2 mL, 1 of each level	1/pk

### Liquichek™ Tumor Marker Control

BIO-RAD LABORATORIES INC - Assayed, liquid control, prepared from human source material for monitoring the precision of cancer antigen and tumor marker assays.



Cat. No.	Mfr. No.	Description	Qty.
BR27114	27114	Level 1 - 6 x 2 mL	1/pk
BR27115	27115	Level 2 - 6 x 2 mL	1/pk
BR27116	27116	Level 3 - 6 x 2 mL	1/pk

### Lyphochek® Allergen sIgE Control, Negative

BIO-RAD LABORATORIES INC - Assayed, lyophilized control prepared from human source material with confirmed values below specified detection limits.

Cat. No.	Mfr. No.	Description	Qty.
BR12000141	12000141	Negative control - 6 x 2 mL	1/pk



### Lyphochek® Allergen sIgE Control, Panel A

BIO-RAD LABORATORIES INC - Assayed, lyophilized human source material based control for monitoring precision of *in-vitro* allergen specific IgE test procedures.

Cat. No.	Mfr. No.	Description	Qty.
BR12000142	12000142	Panel A control - 6 x 2 mL	1/pk



### Lyphochek® Coagulation Control

BIO-RAD LABORATORIES INC - Use these human plasma controls to monitor the precision of five routine coagulation tests (PT, APTT, Fibrinogen, Thrombin Time and Antithrombin III). They offer representative PT values in seconds and International Normalized Ratio (INR). Available in three levels, the controls have an extended reconstituted stability to reduce cost of daily QC. For use on a variety of coagulation systems, including Siemens, Sysmex and Instrumentation Laboratory systems. 48-hour open-vial stability at 2°C to 25°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR744	744	Level 1 - 12 x 1 mL	1/pk
BR745	745	Level 2 - 12 x 1 mL	1/pk
BR746	746	Level 3 - 12 x 1 mL	1/pk

### Lyphochek® Diabetes Control

BIO-RAD LABORATORIES INC - This human whole blood-based control is used to monitor the assay precision of hemoglobin tests associated with diabetes monitoring, including Hemoglobins A1, A1C and F. They have extensive value assignment listings. Seven-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR740	740	Bi-level - 6 x 0.5 mL, 3 of each level	1/pk

### Lyphochek® Hemoglobin A1C Linearity Set

BIO-RAD LABORATORIES INC - Human whole blood based control designed to verify linearity throughout the patient reportable range of HbA1C assays.



Cat. No.	Mfr. No.	Description	Qty.
BR12000070	12000070	A1C linearity set- 6 x 0.5 mL, 1 of each level	1/pk



**Lyphocheck® Hemoglobin A2 Control**

BIO-RAD LABORATORIES INC - This human whole blood-based control is designed to monitor the precision of automated and manual procedures for the measurement of hemoglobin variants, including Hemoglobins A2, F and S. It is ideal for hemoglobin variant analysis. 21-day reconstituted stability at 2°C to 8°C for most analytes. Two-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR553	553	Bi-level - 4 x 0.5 mL, 2 of each level	1/pk

**Lyphocheck® Hemostasis Control**

BIO-RAD LABORATORIES INC - Use these multianalyte controls to monitor the precision of routine coagulation factor assays and selected thrombosis risk assays. Assayed values are available for most major hemostasis analyzers. Eight-hour open-vial stability at 2°C to 25°C (except protein S at 2°C to 8°C). Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR597	597	Level 1 - 12 x 1 mL	1/pk
BR598A	598	Level 2 - 12 x 1 mL	1/pk
BR599	599	Level 3 - 12 x 1 mL	1/pk
BR598X	598X	Tri-level minipak - 3 x 1 mL, 1 of each level	1/pk

**Lyphocheck® Immunoassay Plus Control**

BIO-RAD LABORATORIES INC - These phuman serum-based controls provide the clinical laboratory with the comprehensive analyte menu for monitoring the precision of immunoassay and therapeutic drug monitoring procedures, eliminating the need for separate controls. They contain more than 90 analytes and are assayed for over 1,100 methods. These controls add confidence in your test results and provide an unbiased assessment of your test system. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR371	371	Level 1 - 12 x 5 mL	1/pk
BR372	372	Level 2 - 12 x 5 mL	1/pk
BR373	373	Level 3 - 12 x 5 mL	1/pk
BR370	370	Tri-level - 12 x 5 mL, 4 of each level	1/pk

**Lyphocheck® Immunology Plus Control**

BIO-RAD LABORATORIES INC - This lyophilized, human serum-based control contains a broad menu of serum proteins and related analytes to provide the laboratory with an independent assessment on various test systems. 15-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR430	430	Bi-level - 12 x 1 mL, 6 of each of level	1/pk

**Lyphocheck® Specialty Immunoassay Control**

BIO-RAD LABORATORIES INC - Assayed, lyophilized human serum based control for Procalcitonin, Intact PTH, Vitamin D, EPO and SHBG.



Cat. No.	Mfr. No.	Description	Qty.
BR27124	27124	Level 1 - 6 x 2 mL	1/pk
BR27125	27125	Level 2 - 6 x 2 mL	1/pk
BR27126	27126	Level 3 - 6 x 2 mL	1/pk
BR27125X	27125X	Tri-level minipak - 3 x 2 mL, 1 of each level	1/pk

**Lyphocheck® Tumor Marker Plus Control**

BIO-RAD LABORATORIES INC - Lyophilized, human serum-based control that is designed to monitor the precision of tumor marker testing procedures, featuring 24 cancer antigens and common tumor markers. 14-day reconstituted stability at 2°C to 8°C for most analytes. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR367	367	Level 1 - 6 x 2 mL	1/bx
BR368	368	Level 2 - 6 x 2 mL	1/bx
BR369	369	Level 3 - 6 x 2 mL	1/bx

# Controls

## Immunoassay

### Control FD BNP

AUDIT MICROCONTROLS - Available as freeze-dried.

- BNP-32
- NT-proBNP

Cat. No.	Mfr. No.	Description	Qty.
K023M-6	K023M-6	6 x 1 mL	1/ea

### Control FD Cardiac Markers

AUDIT MICROCONTROLS - Available as freeze-dried.

- CK-MB
- Myoglobin
- Troponin-I

Cat. No.	Mfr. No.	Description	Qty.
K026M-6	K026M-6	Tri-level - 6 x 2 mL	1/ea

### Control FD Glycohemoglobin A1c

AUDIT MICROCONTROLS - Available as freeze-dried.

- Glycohemoglobin A1c

Cat. No.	Mfr. No.	Description	Qty.
K061M-8	K061M-8	8 x 0.5 mL	1/ea

### Control FD Immunoassay

AUDIT MICROCONTROLS - Available as freeze-dried

- Cortisol
- Free T4
- Testosterone
- Digoxin
- FSH
- Total PSA
- Estradiol
- hCG
- Total T3
- Ferritin
- LH
- Total T4
- Folate
- Progesterone
- TSH
- Free T3
- Prolactin
- Vitamin B12

Cat. No.	Mfr. No.	Description	Qty.
K063M-6	K063M-6	Tri-level - 6 x 3 mL	1/ea

### Control FD Procalcitonin

AUDIT MICROCONTROLS - Available as freeze-dried.

- Procalcitonin

Cat. No.	Mfr. No.	Description	Qty.
K071M-6	K071M-6	6 x 2 mL	1/ea

### Linearity FD Anemia Siemens Centaur

AUDIT MICROCONTROLS - Available as freeze-dried.

- Cortisol
- Folate
- Ferritin
- Vitamin B12

Cat. No.	Mfr. No.	Description	Qty.
K809M-5	K809M-5	5 x 3 mL	1/ea

### Linearity FD BNP (Low)

AUDIT MICROCONTROLS - Available as freeze-dried.

- BNP-32
- NT-proBNP

Cat. No.	Mfr. No.	Description	Qty.
K708M-5	K708M-5	5 x 1 mL	1/ea

### Linearity FD BNP (High)

AUDIT MICROCONTROLS - Available as freeze-dried.

- BNP-32
- NT-proBNP

Cat. No.	Mfr. No.	Description	Qty.
K713M-5	K713M-5	5 x 1 mL	1/ea

### Linearity FD BNP Siemens Centaur

AUDIT MICROCONTROLS - Available as freeze-dried.

- BNP-32

Cat. No.	Mfr. No.	Description	Qty.
K803M-5	K803M-5	5 x 1 mL	1/ea

### Linearity FD Cardiac Markers

AUDIT MICROCONTROLS - Available as freeze-dried.

- CK-MB
- Myoglobin
- Troponin-I

Cat. No.	Mfr. No.	Description	Qty.
K710M-5	K710M-5	5 x 1 mL	1/ea

### Linearity FD Cardiac Markers Siemens Centaur

AUDIT MICROCONTROLS - Available as freeze-dried.

- CK-MB
- Myoglobin
- Troponin-I

Cat. No.	Mfr. No.	Description	Qty.
K804M-5	K804M-5	5 x 1 mL	1/ea

### Linearity FD D-Dimer

AUDIT MICROCONTROLS - Available as freeze-dried.

- D-Dimer

Cat. No.	Mfr. No.	Description	Qty.
K717M-5	K717M-5	5 x 1 mL	1/ea

**Linearity FD Fertility Siemens Centaur**

AUDIT MICROCONTROLS - Available as freeze-dried.

- Estradiol-6 III
- LH
- Testosterone
- Estradiol -eE2
- Progesterone
- Total hCG
- FSH
- Prolactin

Cat. No.	Mfr. No.	Description	Qty.
<b>K808M-5</b>	K808M-5	5 x 3 mL	1/ea

**Linearity FD Glycohemoglobin A1c**

AUDIT MICROCONTROLS - Available as freeze-dried.

- Glycohemoglobin A<sub>1c</sub>

Cat. No.	Mfr. No.	Description	Qty.
<b>K703M-5</b>	K703M-5	5 x 1 mL	1/ea

**Linearity FD Immunoassay**

AUDIT MICROCONTROLS - Available as freeze-dried.

**Set 1:**

- Cortisol
- FSH
- Total PSA
- Digoxin
- hCG
- TSH
- Estradiol
- LH
- T3
- Ferritin
- Progesterone
- T4
- Folate
- Prolactin
- Vitamin B12
- Free T4
- Testosterone

**Set 2:**

- Free T3
- Free T4

Cat. No.	Mfr. No.	Description	Qty.
<b>K714M-5</b>	K714M-5	5 x 5 mL	1/ea

**Linearity FD Immunoassay Abbott Architect i Series**

AUDIT MICROCONTROLS - Available as freeze-dried.

**Set 1:**

- Ferritin
- Progesterone
- Total T4
- Folate
- Prolactin
- TSH
- Free PSA
- Testosterone
- Vitamin B12
- FSH
- Total PSA
- LH
- Total T3

**Set 2:**

- Free T3
- Free T4

Cat. No.	Mfr. No.	Description	Qty.
<b>K831M-5</b>	K831M-5	10 x 5 mL	1/ea

**Linearity FD Immunoassay bioMérieux VIDAS and miniVIDAS**

AUDIT MICROCONTROLS - Available as freeze-dried.

- Procalcitonin

Cat. No.	Mfr. No.	Description	Qty.
<b>K841M-5</b>	K841M-5	5 x 1 mL	1/ea

**Linearity FD TDM**

AUDIT MICROCONTROLS - Available as freeze-dried.

- Acetaminophen
- Lithium
- Salicylate
- Carbamazepine (Tegretol)
- Phenobarbital
- Theophylline
- Digoxin
- Phenytoin (Dilantin)
- Tobramycin
- Gentamicin
- Quinidine
- Valproic Acid
- Vancomycin

Cat. No.	Mfr. No.	Description	Qty.
<b>K707M-5</b>	K707M-5	5 x 5 mL	1/ea

**Linearity FD Thyroid Siemens Centaur**

AUDIT MICROCONTROLS - Available as freeze-dried.

**Set 1:**

- Total T3
- Total T4
- TSH

**Set 2:**

- Free T3
- Free T4

Cat. No.	Mfr. No.	Description	Qty.
<b>K807M-5</b>	K807M-5	10 x 3 mL	1/ea

**Linearity FD Tumor Markers**

AUDIT MICROCONTROLS - Available as freeze-dried.

- AFP
- CA 15-3
- Free PSA
- CA 125
- CEA
- Total PSA

Cat. No.	Mfr. No.	Description	Qty.
<b>K719M-5</b>	K719M-5	5 x 1 mL	1/ea

**Linearity FD Tumor Markers Siemens Centaur**

AUDIT MICROCONTROLS - Available as freeze-dried.

**Set 1:**

- AFP
- CA 125
- CEA
- CA 19-9
- CA 27-29 (BR)
- Total PSA

**Set 2:**

- CA 15-3

Cat. No.	Mfr. No.	Description	Qty.
<b>K805M-5</b>	K805M-5	10 x 5 mL	1/ea

# Controls

## Immunoassay

### Linearity LQ ASO

AUDIT MICROCONTROLS - Available as liquid.

- ASO

Cat. No.	Mfr. No.	Description	Qty.
K721M-5	K721M-5	5 x 1 mL	1/ea

### Linearity LQ Homocysteine

AUDIT MICROCONTROLS - Available as liquid.

- Homocysteine

Cat. No.	Mfr. No.	Description	Qty.
K704M-5	K704M-5	5 x 1 mL	1/ea

### Linearity LQ Homocysteine Siemens Centaur

AUDIT MICROCONTROLS - Available as liquid.

- Homocysteine

Cat. No.	Mfr. No.	Description	Qty.
K801M-5	K801M-5	5 x 1 mL	1/ea

### Linearity LQ hs-CRP

AUDIT MICROCONTROLS - Available as liquid.

- High Sensitive C-Reactive Protein

Cat. No.	Mfr. No.	Description	Qty.
K705M-5	K705M-5	5 x 1 mL	1/ea

### Linearity LQ ISE

AUDIT MICROCONTROLS - Available as liquid.

- Chloride
- Potassium
- Sodium

Cat. No.	Mfr. No.	Description	Qty.
K726M-5	K726M-5	5 x 5 mL	1/ea

### Linearity LQ Microalbumin/Microprotein

AUDIT MICROCONTROLS - Available as liquid.

- Microalbumin
- Microprotein

Cat. No.	Mfr. No.	Description	Qty.
K722M-5	K722M-5	5 x 2 mL	1/ea

### Linearity LQ Protein

AUDIT MICROCONTROLS - Available as liquid.

- Alpha-1-Antitrypsin
- IgA
- Total Protein
- C3
- IgG
- Transferrin
- C4
- IgM

Cat. No.	Mfr. No.	Description	Qty.
K702M-5	K702M-5	5 x 2 mL	1/ea

### Linearity LQ RF/CRP

AUDIT MICROCONTROLS - Available as liquid.

- CRP
- RF

Cat. No.	Mfr. No.	Description	Qty.
K720M-5	K720M-5	5 x 1 mL	1/ea

### Method Val FD Procalcitonin bioMérieux VIDAS and miniVIDAS

AUDIT MICROCONTROLS - Available as freeze-dried.

- Procalcitonin

Cat. No.	Mfr. No.	Description	Qty.
K842M-25	K842M-25	25 x 1 mL	1/ea



### Calibrators and Controls - Immunoassay

JAS - These calibrators and controls are suitable for use on any open system chemistry analyzer using JAS reagents. Store at 2°C to 8°C.

Cat. No.	Mfr. No.	Description	Qty.
JA SCRP3C-3	CRP3C-3	CRP high-sensitivity-wide range control set - 2 levels x 3 mL	1/kt
JASCRP3S-2	CRP3S-2	CRP high sensitivity-wide range calibrator set - 5 levels x 2 mL	1/kt
CARC-2	CARC-2	Rheumatoid factor control set - 2 levels x 2 mL	1/kt
RHES-2	RHES-2	Rheumatoid factor calibrator set - 3 levels x 2 mL	1/kt



**A1c Linearity IA Level 4**

NOVA-ONE DIAGNOSTICS - Designed for use as quality control material to monitor linearity throughout the reportable range of Hemoglobin A1c (HbA1c percent) determination methods. This item is stable until the expiration date printed on the container when stored frozen at -20°C. Upon opening containers, this diabetes A1c linearity is stable for 14 days when stored at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
HBL-G04041	HBL-G04041-100	Diabetes A1c linearity - 4 levels x 1 mL	1/kt

**A1c Control Levels 1 and 2**

NOVA-ONE DIAGNOSTICS - NOD® A1c control is intended for monitoring the performance and precision of Hemoglobin A1c (HbA1c percent) immunoassay and HPLC test methods. Refrigerated vials are stable for 180 days for use with immunoassay methods and 30 days when used with HPLC methods. Unopened, this liquid whole-blood control is stable until the expiration date printed on the container when stored frozen.



Cat. No.	Mfr. No.	Description	Qty.
13111-100	NOD13111-100	2 vials	1/kt
13122-100	NOD13122-100	4 vials	1/kt

**Dropper® A1c Diabetes Control**

QUANTIMETRIX - Use Dropper A1c for laboratory and point-of-care hemoglobin A1c quality control. Features three years frozen (from date of manufacture) and six months of refrigerated open vial stability for reduced waste—plus dropper bottles for easy dispensing. Twenty-one days of open vial room temperature stability eliminates storage problems and provides maximum portability – perfect for sites without refrigeration. Designed for use with most major immunoassay laboratory and POCT analyzers.



Cat. No.	Mfr. No.	Description	Qty.
1510-01	1510-01	2 level set - 4 x 2 mL	3 of each level per box

**Microbumin® Microalbumin Control Set**

QUANTIMETRIX - Microbumin Microalbumin Control monitors the performance of popular strips including Clinitek® Microalbumin Reagent Strips and Micral™ test strips. Microbumin is also perfect for use with turbidimetric immunoassays using Abbot Architect, AU® Series, Cobas®, Clinitek®, DCA 2000®, Dimension®, AU® series, Synchron® and nephelometry method. The liquid control is made with human urine and includes creatinine. Has a 3-year refrigerated shelf life from date of manufacture and a 6-month open vial stability when stored at 2°C–8°C.\*

\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.



Cat. No.	Mfr. No.	Description	Qty.
1250-01	1250-01	Microbumin - 2 level set - 7 mL	10/bx

**RNA Medical® RNA1C Control for Bayer® DCA Analyzers**

RNA MEDICAL - Use this assayed quality control material to monitor the performance of Bayer® DCA analyzers that measure HbA1C. The dye-based aqueous solution contains no hemoglobin, no human or biological materials and no reconstitution prior to use. Control has an 18-month shelf life when stored at 2°C to 8°C. Opened control is stable for 90 days if stored refrigerated or for 30 days if stored at room temperature. Refer to the package insert for lot-specific control values. Each box contains four 1mL dropper bottles, two each of normal and abnormal control.

Cat. No.	Mfr. No.	Description	Qty.
QC2000	QCA1C	Hemoglobin A1c control	1/bx

**A1c-Cellular Controls**

STRECK - These HbA1c controls have intact red blood cells and test the entire HbA1c procedure, including the lysing of the red blood cell. They are a ready-to-use liquid control with an open-vial stability of 30 days and closed-vial stability of six months when refrigerated. The controls are appropriate for immunoassay and ionic exchange HPLC methodologies. They are supplied in cap-pierceable plastic vials for closed-vial testing. Order one lot of controls for up to 6 months of testing.



Cat. No.	Mfr. No.	Description	Qty.
<b>Cap-pierceable plastic vials</b>			
B3155-4	211124	Level 1, 2	6/ea
B3155-3	211130	Level 1, 2	2/ea

# Controls

## Toxicology



### MAS Alcohol/Ammonia

THERMO SCIENTIFIC - An assayed bi-level control for monitoring ethanol and ammonia levels in serum. This ready-to-use product is packed in convenient multi-packs and has been assayed for most major instruments. Normal ammonia values in level 1.

Cat. No.	Mfr. No.	Description	Qty.
AAC-MP	AAC-MP	Multi-pack, bi-level, 6 x 3.5 mL	1/ea



### MAS Alcohol/Ammonia for Vista®

THERMO SCIENTIFIC - Designed specifically for use with the Siemens Dimension Vista® instrumentation. Fully validated onboard QC stability claims provide assurance that long-term quality assurance is maintained when performing routine quality control in the Dimension Vista® instrument.

Cat. No.	Mfr. No.	Description	Qty.
10014443	10014443	Multi-pack, bi-level, 6 x 2mL	1/ea



### MAS DOA Total

THERMO SCIENTIFIC - This multi-constituent urine toxicology control offers 19 analytes with 4 distinct levels at drug concentrations 25% below and above commonly used screening and SAMHSA\* cutoffs. A drug-free level and high positive level are also available (6 levels total). The control is a liquid, ready-to-use product available for use on a variety of instrument platforms. Each level of control is individually packed, which gives you the flexibility to choose your levels according to your drug screen panel cutoffs while keeping the number of control vials to a minimum.

Cat. No.	Mfr. No.	Description	Qty.
DOAT-1	DOAT-1	Level 1, 6 x 18 mL	1/ea
DOAT-2	DOAT-2	Level 2, 6 x 18 mL	1/ea
DOAT-3	DOAT-3	Level 3, 6 x 18 mL	1/ea
DOAT-4	DOAT-4	Level 4, 6 x 18 mL	1/ea
DOAT-5	DOAT-5	Level 5, 6 x 18 mL	1/ea
DOAT-6	DOAT-6	Level 6, 6 x 18 mL	1/ea
DOAT-MP	DOAT-MP	Multi-pack, 1 bottle per level, 18 mL	1/ea

\*Substance Abuse and Mental Health Services Administration (SAMHSA)

### MAS Tox Control

THERMO SCIENTIFIC - This multi-analyte control is developed for use with the Thermo Scientific™ MAS Toxicology immunoassays for the semi-quantitative measurement of barbiturates, benzodiazepine and tricyclic antidepressants in either serum or plasma.



Cat. No.	Mfr. No.	Description	Qty.
10011608	10011608	Multi-pack, tri-level, 6 x 5 mL	1/ea

**Liquichek™ Ethanol/Ammonia Control**

BIO-RAD LABORATORIES INC - Low, elevated and toxic concentrations of Ethanol and Ammonia to monitor precision of test procedures across the clinical range.

- 20 day open-vial (punctured) stability for both analytes when stored at 2°C to 8°C
- 2 year shelf life when stored at 2°C to 8°C



Cat. No.	Mfr. No.	Description	Qty.
BR271	271	Level 1 - 6 x 2.5 mL	1/pk
BR272	272	Level 2 - 6 x 2.5 mL	1/pk
BR273	273	Level 3 - 6 x 2.5 mL	1/pk

**Liquichek™ Ethanol/Ammonia Control**

BIO-RAD LABORATORIES INC - Low, elevated and toxic concentrations of Ethanol and Ammonia to monitor precision of test procedures across the clinical range.

- 20 day open-vial stability when stored at 2°C to 8°C
- 2 year shelf life when stored at 2°C to 8°C



Cat. No.	Mfr. No.	Description	Qty.
BR544	544	Level 1 - 6 x 3 mL	1/pk
BR545	545	Level 2 - 6 x 3 mL	1/pk
BR546	546	Level 3 - 6 x 3 mL	1/pk

**Liquichek™ Opiate Control**

BIO-RAD LABORATORIES INC - This liquid, human urine-based control contains eight drugs or drug metabolites to monitor the precision of urine toxicology testing procedures. It has been tested by GC/MS, LC/MS/MS and other methods to confirm the recovery of drug quantities added. This control is available in two levels, containing drugs or drug metabolites at concentrations above and below most assay cutoffs. Representative values are provided for screening and confirmatory methods. 30-day open-vial stability at 2°C to 8°C. Three-year shelf life when stored frozen at -20°C to -70°C.



Cat. No.	Mfr. No.	Description	Qty.
BR416	416	Level 1 - 6 x 5 mL	1/pk
BR417	417	Level 2 - 6 x 5 mL	1/pk

**Liquichek™ Qualitative Urine Toxicology Control**

BIO-RAD LABORATORIES INC - This liquid, human urine-based control is designed for use with qualitative rapid urine drug screen panels, including point-of-care drugs-of-abuse test kits like Bio-Rad TOX/See™, Biosite Triage® and other popular test kits. The package insert includes qualitative results (+/-) for popular kits and recovery values by gas chromatography (GC) and other quantitative methods. It provides unbiased assessment of your test procedures and includes negative and positive levels. 30-day open-vial stability at 2°C to 25°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR454	454	Negative level - 6 x 3 mL	1/pk
BR455	455	Positive level - 6 x 3 mL	1/pk

**Liquichek™ Serum Volatiles Control**

BIO-RAD LABORATORIES INC - These liquid, human serum-based controls have assayed values for the most widely measured volatile compounds. They are bi-level controls that are ready to use. 10-day open-vial stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR383	383	Level 1 - 6 x 5 mL	1/pk
BR384	384	Level 2 - 6 x 5 mL	1/pk

**Liquichek™ Urine Toxicology Control, Level S10 and Level S10 Low Opiate**

BIO-RAD LABORATORIES INC - Liquid human urine screening control with drugs of abuse at 20 - 50% below commonly used cutoff levels.



Cat. No.	Mfr. No.	Description	Qty.
BR683	683	Level S10 low opiate - 300 ng/mL opiate cutoff - 10 x 10 mL	1/pk
BR673	673	Level S10 - 2,000 ng/mL opiate cutoff - 10 x 10 mL	1/pk





### Liquichek™ Urine Toxicology Screen and Confirmatory Controls

BIO-RAD LABORATORIES INC - These human urine liquid controls are available in a variety of levels designed to monitor the performance of screening, semi-quantitative and confirmatory drugs-of-abuse testing procedures. Choose from a variety of controls with analytes at appropriate concentrations for a wide range of screening and confirmatory methods. They meet current SAMHSA\* and other agency guidelines and are made from human urine with pH, specific gravity and creatinine that fall within the limits of normal human urine. 30-day open-vial stability at 2°C to 8°C.

Liquichek™ Urine Toxicology Negative Control is tested as negative for 32 of the most commonly abused drugs and is to be used with screening or confirmatory methods.

Liquichek™ Urine Toxicology Screen Controls are human urine controls containing a large panel of drugs of abuse at concentrations above or below immunoassay screen cutoff levels.

Liquichek™ Urine Toxicology Confirmatory Controls are human urine controls containing a large panel of drugs of abuse at various levels for monitoring confirmatory test methods.

\*Refer to the package insert for concentration, performance and stability claims.

Cat. No.	Mfr. No.	Description	Qty.
<b>Negative, Confirmatory and Screen controls</b>			
BR460	460	Negative control - 10 x 20 mL	1/pk
BR461	461	Level S1 - 10 x 10 mL	1/pk
BR466	466	Level S1 low opiate - 10 x 10 mL	1/pk
BR462	462	Level S2 - 10 x 10 mL	1/pk
BR467	467	Level S2 low opiate - 10 x 10 mL	1/pk
BR463	463	Level S3 - 10 x 10 mL	1/pk
BR409	409	Level S1S - 10 x 10 mL	1/pk
BR409X	409X	Level S1S minipak - 1 x 10 mL	1/pk
BR419	419	Level S2S - 10 x 10 mL	1/pk
BR419X	419X	Level S2S minipak - 1 x 10 mL	1/pk
BR438	438	Level S1E - 10 x 10 mL	1/pk
BR423	423	Level S1E low opiate - 10 x 10 mL	1/pk
BR439	439	Level S2E - 10 x 10 mL	1/pk
BR424	424	Level S2E low opiate - 10 x 10 mL	1/pk
BR441	441	Level C1 - 10 x 20 mL	1/pk
BR442	442	Level C2 - 10 x 20 mL	1/pk
BR468	468	Level C2 low opiate - 10 x 20 mL	1/pk
BR443	443	Level C3 - 10 x 20 mL	1/pk
BR469	469	Level C3 low opiate - 10 x 20 mL	1/pk
BR444	444	Level C4 - 10 x 20 mL	1/pk

### Liquichek™ Urine Toxicology Control, Level S2O and Level S2O Low Opiate

BIO-RAD LABORATORIES INC - Liquid human urine screening control with drugs of abuse at 20–50% above commonly used cutoff levels.



Cat. No.	Mfr. No.	Description	Qty.
BR706	706	Level S2O low opiate - 300 ng/mL opiate cutoff - 10 x 10 mL	1/pk
BR676	676	Level S2O - 2,000 ng/mL opiate cutoff - 10 x 10 mL	1/pk

### Lyphocheck® Benzo/TCA Control - Set A

BIO-RAD LABORATORIES INC - This human serum-based control is ideal for monitoring the precision of HPLC methods for identification and quantitation of benzodiazepines and tricyclic antidepressant drugs. 30-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.



Cat. No.	Mfr. No.	Description	Qty.
BR661	661	Level 1 - 6 x 5 mL	1/pk
BR662	662	Level 2 - 6 x 5 mL	1/pk

### Lyphocheck™ Benzo/TCA Control - Set B

BIO-RAD LABORATORIES INC - Assayed, lyophilized human serum based control for benzodiazepines and tricyclic antidepressants.



Cat. No.	Mfr. No.	Description	Qty.
BR663A	663	Level 1 - 6 x 5 mL	1/pk
BR664A	664	Level 2 - 6 x 5 mL	1/pk

### Lyphocheck® Drug-Free Serum

BIO-RAD LABORATORIES INC - This lyophilized, serum control tested negative for more than 60 therapeutic drugs and illicit compounds. It is to be used as a negative control and its drug-free baseline reference includes HPLC analysis and other methods. 10-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR456	456	Single level - 12 x 10 mL	1/pk



### Lyphochek® Urine Bone Markers Control

BIO-RAD LABORATORIES INC - This bi-level, human urine-based control is designed to monitor the precision of tests osteoporosis bone resorption. 14-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR406	406	Bi-level - 6 x 2 mL, 3 of each level	1/pk



### Lyphochek® Urine Metals Control

BIO-RAD LABORATORIES INC - These lyophilized, human urine-based controls are designed for toxicological, environmental and industrial testing. They contain critical trace elements, heavy metals and organic metabolites. Use these controls with Atomic Absorption (AA), GC-MS, HPLC and ICP-MS. Five-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C. Refer to the package insert for analyte claims and stability information. Unity™ Interlaboratory Program available for the life of the lot.

Cat. No.	Mfr. No.	Description	Qty.
BR400	400	Level 1 - 10 x 25 mL	1/pk
BR405	405	Level 2 - 10 x 25 mL	1/pk

### Lyphochek® Whole Blood Metals Control

BIO-RAD LABORATORIES INC - These human whole blood-based controls contain the major heavy metals of toxicological and environmental significance for whole blood analysis. They have assayed lead values for Atomic Absorption (AA), Anodic Stripping Voltammetry (ASV), Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) and Isotope Dilution Mass Spectrometry (IDMS). 14-day reconstituted stability at 2°C to 8°C. Three-year shelf life at 2°C to 8°C.



Cat. No.	Mfr. No.	Description	Qty.
BR527	527	Level 1 - 6 x 2 mL	1/pk
BR528	528	Level 2 - 6 x 2 mL	1/pk
BR529	529	Level 3 - 6 x 2 mL	1/pk

### Control LQ Ammonia/Ethanol

AUDIT MICROCONTROLS - Available as liquid.

- Ammonia
- Ethanol

Cat. No.	Mfr. No.	Description	Qty.
K062M-6	K062M-6	6 x 3 mL	1/ea

### Linearity LQ Ammonia/Ethanol

AUDIT MICROCONTROLS - Available as liquid.

- Ammonia
- Ethanol

Cat. No.	Mfr. No.	Description	Qty.
K712M-5	K712M-5	5 x 2 mL	1/ea

### Ammonia/Alcohol Controls

QUANTIMETRIX - Ammonia/Alcohol Control monitors the performance of ammonia and ethanol assay methods at three clinically significant levels and is perfect for use with most major chemistry analyzers including: Cobas®, Dimension®, Architect and AU® series. The liquid control is ready-to-use and features a 3-year refrigerated shelf life from date of manufacture and 4-months open vial stability when stored at 2°C–8°C.\*



\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.

Cat. No.	Mfr. No.	Description	Qty.
1311-31	1311-31	Ammonia/Alcohol - Low, level 1 - 5 mL	3/bx
1312-31	1312-31	Ammonia/Alcohol - Mid, level 2 - 5 mL	3/bx
1313-31	1313-31	Ammonia/Alcohol - High, level 3 - 5 mL	3/bx



We help you  
**GET YOUR RESULTS**

# Liquid Handling

## Air Displacement Pipettors

### Biomaster Pipette and Positive Displacement Tips

EPPENDORF - This pipette incorporates an integrated, disposable tip/piston assembly that reduces sample contamination by eliminating carryover and aerosols, helping you prepare cleaner and more reproducible samples. The Biomaster Pipette is ideal for liquids that are viscous or have high vapor pressure and allow for simple, one-handed operation. Just insert pipettor nose cone into tip/piston. Push control knob in to engage piston and then release. To eject the tip/piston, depress control knob all the way. Preassembled tips/pistons are packaged in five autoclavable racks of 96 pieces each for convenient handling and sterilization.



Cat. No.	Mfr. No.	Description	Qty.
P5063-4	022440501	Biomaster pipette	1/ea
P5063-5	022354159	Tips	480/pk



### Research® Plus Pipettes

EPPENDORF - The Eppendorf Research® Plus pipette is an advanced and ergonomic manual pipette. The pipette has been designed to be light and ergonomic while still maintaining a high level of performance. The ultra-light pipette meets needs in precision and accuracy while having excellent ergonomics and increased flexibility.

Cat. No.	Mfr. No.	Description	Qty.
P5063-375	3120000070	0.5 to 5 mL	1/ea
P5063-372	3120000054	20 to 200 µL	1/ea
P5063-374	3120000062	100 to 1,000 µL	1/ea

### Finnpipette F1 Adjustable-Volume Pipette

THERMO SCIENTIFIC - The Finnpipette™ F1 pipette's remarkably lightweight design, combined with low attachment and ejection and plunger forces, make pipetting safe and comfortable. The adjustable finger rest rotates up to 120° making it ideal for both right- and left-handed users. Combined with its wide shape, your hand can relax during pipetting cycles and sit comfortably at the correct angle for efficient pipetting. The modern volume lock design helps ensure your selected volume will be locked safely in place to avoid accidental volume drift during pipetting cycles.

Low pipetting action reduces the risk of Repetitive Strain Injury (RSI) and enhances pipetting safety. The Finnpipette F1 pipette provides superior accuracy and precision for performance you can rely on for general laboratory use.



#### Specifications:

Range ..... 100–1,000 µL  
 Increments ..... 1 µL  
 Accuracy ..... ±1.0 to 0.6%  
 Precision ..... 0.6 to 0.2%  
 Finntip ..... Flex 1000, 1000, 1000 Ext.

Cat. No.	Mfr. No.	Description	Qty.
4641100	4641100	F1 adjustable-volume pipettes	1/ea

### Finnpipette F2 Adjustable-Volume Pipettes

THERMO SCIENTIFIC - To meet the needs of daily pipetting, the Finnpipette™ F2 pipette is your choice for general laboratory use. The durable construction exhibits excellent strength in a variety of challenging applications and environments. The pipette is fully autoclavable at 121°C, and the black surface allows the Finnpipette F2 pipette to withstand UV exposure without damage. Long-lasting materials enable extended product life in heavy-duty applications. The Finnpipette F2 pipette is available in adjustable and fixed volume pipettes.



Cat. No.	Mfr. No.	Description	Qty.
<b>Adjustable-volume pipettes</b>			
4642070	4642070	Range: 10–100 µL, increments: 0.2 µL, accuracy: ±3.0 to 0.8%	1/ea
4642080	4642080	Range: 20–200 µL, increments: 0.2 µL, accuracy: ±1.8 to 0.6%	1/ea
4642090	4642090	Range: 100–1,000 µL, increments: 1 µL, accuracy: ±1.0 to 0.6%	1/ea
4642100	4642100	Range: 0.5–5 mL, increments: 0.01 mL, accuracy: ±2.0 to 0.5%	1/ea
<b>Fixed-volume pipettes</b>			
4652100	4652100	Range: 3,000 µL, accuracy: ±0.3%	1/ea

# Liquid Handling

## Air Displacement Pipettors

### MLA Adjustable Digital Micropipettors

VISTALAB TECHNOLOGIES - Cover the entire 10 to 1,000 µL range with this three-model line of digital micropipettors. Simply dial the desired volume in 0.5, 1.0 or 5.0 µL increments. These pipettors feature positive "click" stops to lock in the selected volume. Convenient window readout helps ensure accuracy. With the built-in D-Tipper™ tip ejector, you can gently dispose of tips without touching them. Pipettors are made from lightweight aluminum and stainless steel for comfort and durability. Order tips separately.



Cat. No.	Mfr. No.	Description	Qty.
<b>Uses tips P5064-902, -902E, -902P, -902S, -911</b>			
<b>P5067-1A</b>	1136	Green, volume: 10 to 50 µL - increments: 0.5	1/ea
<b>P5067-2A</b>	1137	Red, volume: 50 to 200 µL - increments: 1.0	1/ea
<b>Uses tips P5064-903, -903E, -903P, -903S, -910</b>			
<b>P5067-3A</b>	1138	Gray, volume: 200 to 1,000 µL - increments: 5.0	1/ea



### MLA Adjustable Macro Pipettor

VISTALAB TECHNOLOGIES - For precise measurement of almost any liquid, regardless of viscosity, this macro pipettor offers adjustable delivery from 1 to 5 mL in a single stroke. The calibrated, non-wettable polypropylene tip has clearly marked 1/10 mL increments and can be used in a wide variety of test vessels including narrow-mouth receptacles. The pipettor features a durable metal construction. Tips must be ordered separately. Uses graduated macro tip P5078-900.

Cat. No.	Mfr. No.	Description	Qty.
<b>P5078-1</b>	1061	MLA adjustable macro pipettor	1/ea

## Pricing

Please call your sales or customer service representative to check **up-to-the-minute pricing and availability.**



### MLA D-Tipper™ Pipettors

VISTALAB TECHNOLOGIES - These all-metal pipettors are designed for precise delivery and durable performance. They are slim and feature a built-in tip ejector. Choose from fixed or selectable volume. Smooth one-stroke action enhances repeatable results and requires less physical effort. All pipettors are user calibratable except for selectable volume pipettor P5065-110. Order tips separately. Pipettor P5065-110 contains three of the most commonly used volumes in one instrument. Simply rotate the button plunger to choose the volume.

Cat. No.	Mfr. No.	Description	Qty.
<b>Fixed volume - use tips P5064-902, -902E, -902P, -902S, -911</b>			
<b>P5065-5</b>	1141C	Silver, volume: 5 µL, accuracy: ±5.0%	1/ea
<b>P5065-10</b>	1051C	Orange, volume: 10 µL, accuracy: ±5.0%	1/ea
<b>P5065-20</b>	1052C	Black, volume: 20 µL, accuracy: ±3.0%	1/ea
<b>P5065-25</b>	1053C	White, volume: 25 µL, accuracy: ±3.0%	1/ea
<b>P5065-50</b>	1054C	Green, volume: 50 µL, accuracy: ±2.0%	1/ea
<b>P5065-100</b>	1055C	Blue, volume: 100 µL, accuracy: ±1.0%	1/ea
<b>P5065-200</b>	1056C	Red, volume: 200 µL (small tip), accuracy: ±1.0%	1/ea
<b>Fixed volume - use tips P5064-903, -903E, -903P, -903S, -910</b>			
<b>P5065-250</b>	1057C	Purple, volume: 250 µL, accuracy: ±1.0%	1/ea
<b>P5065-300</b>	1058C	Brown, volume: 300 µL, accuracy: ±1.0%	1/ea
<b>P5065-500</b>	1059C	Yellow, volume: 500 µL, accuracy: ±1.0%	1/ea
<b>P5065-800C</b>	1160C	Silver, volume: 800 µL, accuracy: ±1.0%	1/ea
<b>P5065-1L</b>	1060C	Gray, volume: 1,000 µL, accuracy: ±1.0%	1/ea
<b>Selectable volume - use tips P5064-902, -902E, -902P, -902S, -911</b>			
<b>P5065-110</b>	1132	Silver, volume: 50/100/200 µL, accuracy: ±2.5/1.5/1.3%	1/ea

# Liquid Handling

## Air Displacement Pipettors

### MLA Fixed-Volume Macro Pipettors

VISTALAB TECHNOLOGIES -

These pipettors are designed for accurate and precise reconstitution of reagents and controls. They allow a larger volume sampling and are available in four sizes, which are color-coded for easy identification. Each pipettor is factory-calibrated for accurate volume delivery. If calibration is needed, a calibration key and simple procedure are available. The streamlined design and lightweight aluminum construction make these pipettors comfortable to hold and less tiring during repetitive procedures. A stainless steel nozzle tip helps prevent accidental damage to the pipettor. Tips must be ordered separately. Accuracy is  $\pm 0.75\%$ . Use graduated macro tip P5078-900 to visually confirm the volume delivered.



Cat. No.	Mfr. No.	Description	Qty.
P5066-1A	1065	1 mL - gray	1/ea
P5066-2A	1066	2 mL - red	1/ea
P5066-3A	1067	3 mL - green	1/ea
P5066-5A	1069	5 mL - yellow	1/ea



### MLA Precision Pipettors

VISTALAB TECHNOLOGIES - For dispensing liquid volumes from 5 to 1,000  $\mu\text{L}$ , these all-metal precision stainless steel pipettors are color-coded for specific volume capacity. The pipettors operate by a single-stroke procedure with no intermediate stops—drawing and dispensing employ the same technique. Repeatability is better than  $\pm 1\%$ . Each pipettor includes a calibration key so you can adjust the dispensed volume, if needed. Order tips separately.

Cat. No.	Mfr. No.	Description	Qty.
Use tips P5064-902, -902E, -902P, -902S, -911			
P5064-10	1021	Orange, volume: 10 $\mu\text{L}$ , accuracy: $\pm 5.0\%$	1/ea
P5064-50	1024	Green, volume: 50 $\mu\text{L}$ , accuracy: $\pm 2.0\%$	1/ea
P5064-100	1025	Blue, volume: 100 $\mu\text{L}$ , accuracy: $\pm 1.0\%$	1/ea
P5064-200	1026	Red, volume: 200 $\mu\text{L}$ , accuracy: $\pm 1.0\%$	1/ea
Use tips P5064-903, -903E, -903P, -903S, -910			
P5064-1L	1030	Gray, volume: 1,000 $\mu\text{L}$ , accuracy: $\pm 1.0\%$	1/ea



### MLA Selectable Macro Pipettor

VISTALAB TECHNOLOGIES - This selectable macro pipettor is four fixed-volume macro pipettors in one. It is convenient for workstations where routine transfer of several standard volumes is required. Each volume capacity is factory-calibrated and accurate to within  $\pm 1\%$ . A simple twist of the bonnet lets you select a 2, 3, 4 or 5 mL volume setting. The selected volume is locked in with a positive stop. Tips must be ordered separately. Uses graduated macro tip P5078-900.

Cat. No.	Mfr. No.	Description	Qty.
P5066-6	1134	MLA selectable macro pipettor	1/ea



### Ovation® BioNatural™ Pipettors

VISTALAB TECHNOLOGIES - These liquid transfer pipettors feature a tip ejection mechanism to discard tips with the push of a button. Ergonomic design helps reduce strain from posture, repetition and force. An adjustable hook to improve comfort for left- or right-handed users and a low-force, form-fitting plunger to control the speed of dispensing and aspiration with minimal effort. Five aspiration and dispensing volumes may be programmed in and recalled. Since the device stands securely on a flat countertop, there is no need for a rack, and a filtered nozzle helps prevent liquid from contaminating the body of the device.

Cat. No.	Mfr. No.	Description	Qty.
P5500-1	1057-0002	0.2 to 2 $\mu\text{L}$ volume range - 0.002 $\mu\text{L}$ dispensing increments	1/ea
P5500-2	1057-0010	1 to 10 $\mu\text{L}$ volume range - 0.01 $\mu\text{L}$ dispensing increments	1/ea
P5500-3	1057-0020	2 to 20 $\mu\text{L}$ volume range - 0.2 $\mu\text{L}$ dispensing increments	1/ea
P5500-4	1057-0100	10 to 100 $\mu\text{L}$ volume range - 0.1 $\mu\text{L}$ dispensing increments	1/ea
P5500-5	1057-0200	20 to 200 $\mu\text{L}$ volume range - 0.2 $\mu\text{L}$ dispensing increments	1/ea
P5500-6	1057-1000	100 to 1,000 $\mu\text{L}$ volume range - 1.0 $\mu\text{L}$ dispensing increments	1/ea



## Automated Pipettor Aids/Cleaning Devices

### Aqua-Cap® Microdispenser

DRUMMOND SCIENTIFIC - These disposable glass capillary pipettes with hydrophobic plug are preset to precise volume delivery. The plug controls volume and serves as a piston, which dispenses sample when pressed downward by reusable plunger. These single-use pipettes help eliminate potential cross-contamination.

Cat. No.	Mfr. No.	Description	Qty.
P5066-650	7-000-0650-LHC	65 µL microdispenser	1/ea

### Pipet-Aid® Portable Pipettor

DRUMMOND SCIENTIFIC - The power supply for this lightweight, compact, portable Pipet-Aid® pipettor is built into the handle. The unit can run continuously for up to 8 hours, pipetting 2,500 times without recharging. Pipettor operates on a 9 V nickel metal hydride (Ni-MH) rechargeable battery. The Pipet-Aid® portable pipettor accepts a range of pipette sizes from 1 to 100 mL. It includes a tissue culture nosepiece, four extra filters, a recharger and a Pipet-Aid® holster for convenient storage. Charger operates on 110 V.



Cat. No.	Mfr. No.	Description	Qty.
P5067-110	4-000-100	Portable pipettor	1/ea



### Pipet-Aid® XP Portable Pipettor

DRUMMOND SCIENTIFIC - This Pipet-Aid® XP pipettor provides three speed ranges for filling and three speed ranges for emptying. This gives a total of nine speed-range combinations. To use, just set the fill and empty buttons and begin pipetting. You can even vary the speed control simply by applying more or less pressure to the button. Unit can run continuously for up to 8 hours on fully charged battery, pipetting 2,000 times without recharging. The Pipet-Aid® portable pipettor is 25% lighter than standard Pipet-Aid® pipettors and accepts a range of pipette sizes from 1 to 100 mL. Unit includes a removable stand, tissue culture nosepiece, four extra filters, a recharger and a Pipet-Aid® holster for convenient storage.

#### Specifications:

Size.....5.5 in.  
Power requirements .....9 V Ni-MH (included)  
Weight .....7.5 oz.

Cat. No.	Mfr. No.	Description	Qty.
P5067-101	4-000-101	Portable pipettor	1/ea



### Thermo Scientific Nalgene Pipette Cleaning Sets

THERMO SCIENTIFIC - These conveniently packaged sets contain a pipette jar, basket and washer/rinser. One set per case.

Cat. No.	Mfr. No.	Description	Qty.
P5266-2	5250-0050	C size - 24 in. pipette - 6½ x 27 in.	1/ea

### Thermo Scientific Nalgene Pipette Washer-Rinsers

THERMO SCIENTIFIC - One-piece leak-resistant washer-rinsers have a water inlet located at the top to help eliminate the risk of back-siphoning contaminated water into the water line. Rinsers operate with water input from 1.5 to 12 L/min. Each unit includes Nalgene® vinyl tubing for both inlet and outlet.



Cat. No.	Mfr. No.	Description	Qty.
P5250-2	5245-0050	C size - 24 in. pipette - for use with basket DS5241-0050	4/cs

# Liquid Handling

## Dispenser Syringes



### PUMPMATIC® Sampling/Dispensing Syringes

ASHTON - These syringes are designed to provide fast and accurate sampling. Only one hand is needed to draw and dispense. Even small centrifuge samples can be transferred quickly or drop-by-drop to one or more containers. Syringes are made of polystyrene, which helps keep liquid readings flat and accurate. The disposable, one-piece syringes are unaffected by common aqueous or many organic fluids and help prevent cross-contamination resulting from attachable devices.

Cat. No.	Mfr. No.	Description	Qty.
<b>Sterile</b>			
P5180-1	101	1 mL	100/cs
P5180-5	105	5 mL	100/cs
P5180-10	110	10 mL	100/cs
<b>Nonsterile</b>			
P5180-11	210	10 mL	100/cs



## Multichannel Pipettors

### Transferpette® S Multichannel Pipettes

BRANDTECH SCIENTIFIC - The Transferpette S 8-channel is the perfect manual pipette for demanding laboratory applications for scientists who prefer a central-button control layout. The Transferpette S offers lightweight construction, superior autoclavability, simple one-handed operation, high degree of accuracy and precision, and Easy Calibration™ technology for simple in-laboratory calibration without tools.

- One-handed volume adjustment with brake for secure setting
- 12.5 mm piston stroke-length is shortest of all leading pipettes
- Completely autoclavable at 121°C/250°F (20 minutes)
- Patented individually removable/replaceable tip cones for easy in-lab cleaning and service
- V-rings for low-force tip mounting and ejection
- Four digit volume display is always visible

Cat. No.	Mfr. No.	Description	Qty.
BTS703706	703706	8-channel, 5-50 uL	1/ea
BTS703710	703710	8 channel, 20-200 uL	1/ea



## Repeating Pipettors/Pipette Tips and Accessories

### HandyStep® Electronic Repeating Pipettor

BRANDTECH SCIENTIFIC - Eliminate the stress of repetitive pipetting with this electronic pipettor. Its ergonomic design allows for a relaxed grip, while the finger-control button requires just a gentle squeeze for dispensing. The unique auto-dispense mode also aids in reducing repetitive operator motion. When in this mode, the instrument will read the timing of the first three individual dispensings and calculate the interval between them, after which it will dispense liquid at that interval for as long as the control key is depressed. No preprogramming is needed.

Pipettor has a continuous volume selection from 1 µL to 50 mL and a tip recognition mechanism that allows for the automatic selection of dispensing volumes. When an encoded PD-Tip™ syringe tip is inserted into the unit, pipettor will set itself to the dispensing volume and dispensing steps for that tip. Unit also accepts a wide variety of other commonly used repeating pipettor tips, including Rainin® brand Encode™ and Eppendorf® brand Combitips® and Combitips® Plus tips. Pipettor also features a comprehensive LCD screen that displays reference volume, operating mode, dispensing/aspirating speeds, battery charge and the remaining dispensing steps. Controls are easily operated by left- or right-handed users.

Pipettor's removable, rechargeable battery option allows near-continuous operation with the purchase of a second battery. Unit is supplied with a NiMH battery, a battery charger that recharges battery inside the unit in 3.5 hours and outside the unit in 2.5 hours, five assorted-volume PD-Tips™ syringe tips, a performance certificate and an operating manual. Power requirements: 110 V, 50/60 Hz. Replacement parts and accessories are sold separately.



Cat. No.	Mfr. No.	Description	Qty.
P4000-12	705002	HandyStep® electronic repeating pipettor	1/ea

#### Replacement Parts and Accessories

P4000-13	705025	NiMH battery	1/ea
P4000-569	705020	Charging stand	1/ea
P4000-568	705052	AC adapter, 110 V	1/ea

### HandyStep® S Repeating Pipettor

BRANDTECH SCIENTIFIC - The HandyStep® S is supplied with a performance certificate, shelf/rack mount, one each: 0.1 mL, 1 mL and 10 mL PD-Tip™ syringe tips, operating manual and two-year warranty.

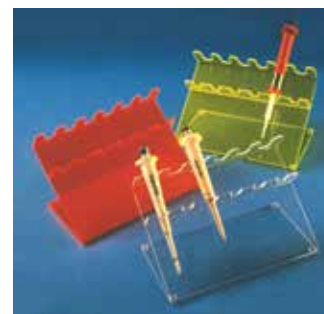


Cat. No.	Mfr. No.	Description	Qty.
BTS705110	705110	HandyStep® S repeating	1/ea



### Pipettor Stations

CARDINAL HEALTH - This line of pipettor stations holds 1, 2, 3, 4 and 6 pipettes. Few labs limit themselves to one particular brand of pipette, yet each type often requires a different holder. These pipettor stations are designed to help eliminate this problem. These multi-purpose holders are clear, white, neon green and neon red and accommodate most brands of pipettors. These pipettor stations have a 1 in. upper rack and a ¾ in. lower rack.



6-pipettor station S1389-73 neon red, S1389-72 neon green, S1389-71 clear

Cat. No.	Description	Qty.
<b>1-pipettor station, 7¼ x 2¾ x 6½ (H x W x D) in.</b>		
S1389-153C	Clear	1/ea
S1389-153G	Neon green	1/ea
S1389-153R	Neon red	1/ea
S1389-153W	White	1/ea
<b>2-pipettor station, 7¼ x 4 x 6½ (H x W x D) in.</b>		
S1389-154C	Clear	1/ea
S1389-154G	Neon green	1/ea
S1389-154R	Neon red	1/ea
S1389-154W	White	1/ea
<b>3-pipettor station, 7¼ x 6½ x 6½ (H x W x D) in.</b>		
S1389-155C	Clear	1/ea
S1389-155G	Neon green	1/ea
S1389-155R	Neon red	1/ea
S1389-155W	White	1/ea
<b>4-pipettor station, 7¼ x 8¾ x 6½ (H x W x D) in.</b>		
S1389-156C	Clear	1/ea
S1389-156G	Neon green	1/ea
S1389-156R	Neon red	1/ea
S1389-156W	White	1/ea
<b>6-pipettor station, 7¼ x 11¾ x 6½ (H x W x D) in.</b>		
S1389-71	Clear	1/ea
S1389-72	Neon green	1/ea
S1389-73	Neon red	1/ea
S1389-157	White	1/ea

# Liquid Handling

## Pipette Tips and Accessories



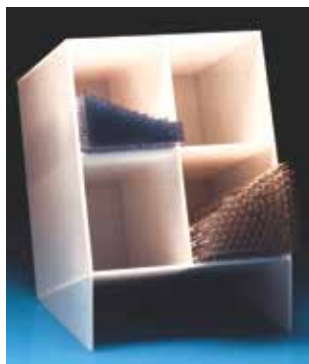
### Pipette Bin Station

**CARDINAL HEALTH** - This pipette bin station holds six pipettors and has two bins for disposable tips. Each bin (2¼ H x 5 W x 5½ in. D) is covered with a clear acrylic lid to protect its contents from dust.

Cat. No.	Description	Dimensions (H x W x D)	Qty.
<b>S1389-74</b>	Pipette bin station	12½ x 11¾ x 8½ in.	1/ea

### Pipette Shelf

**CARDINAL HEALTH** - Organize serological pipettes in this all-white acrylic pipette shelf. Four angled compartments hold and separate a variety of pipettes for easy access. Solid construction offers additional protection and a better appearance than the cardboard box in which the pipettes are shipped. The pipette shelf is also useful in places such as biological safety cabinets, where cleanliness and organization are essential. Its compact size saves valuable bench space yet holds hundreds of 1, 5, 10 mL and larger pipettes.



Cat. No.	Description	Dimensions (H x W x D)	Qty.
<b>S1389-35</b>	Pipette shelf	12¼ x 10 x 9¾ in.	1/ea



### AccuTip® 2½ in. Gel-Loading Pipettor Tips

**CARDINAL HEALTH** - AccuTip® round gel-loading microcapillary tips have a 1 to 200 µL capacity. Natural color tips are for use with DNA sequencing, loading electrophoresis gels and other critical sampling applications. Tips are compatible with Pipetman®, the Biohit Proline®, Eppendorf®, the Jencons Sealpette®, Oxford® BenchMate®, Costar®, Finnpiquette®, Socorex and Titertek® digital pipettors. 68 mm L x 0.6 mm O.D.

*Eppendorf® is a registered trademark of Eppendorf Netheler-Hinz GmbH.*

*Pipetman® is a registered trademark of Gilson, Inc.*

*Biohit Proline® is a registered trademark of Biohit Oyj.*

*Jencons Sealpette® is a registered trademark of Jencons Scientific Limited.*

*Oxford® and BenchMate® are registered trademarks of Oxford Instruments.*

*Costar® is a registered trademark of Corning, Inc.*

*Finnpiquette® is a registered trademark of Thermo Fisher Scientific.*

*Titertek® is a registered trademark of ICN Biomedicals, Inc.*

Cat. No.	Description	Qty.
<b>Nonsterile</b>		
<b>P5049-34</b>	Bulk pack	1,000/pk
<b>P5049-35</b>	5 racks of 204	1,020/pk, 5,100/cs
<b>Sterile</b>		
<b>P5049-36</b>	5 racks of 204	1,020/pk, 5,100/cs



### AccuTip® 2¾ in. Nonfilter Pipettor Tips

**CARDINAL HEALTH** - AccuTip® nonfilter pipettor tips have a 101 to 1,000 µL capacity. Nonsiliconized, with reference marks. Blue or natural color. Each package contains 1,000 pipettor tips. Cannot be used with MLA large-volume pipettors.

Cat. No.	Description	Qty.
<b>Blue</b>		
<b>P5049-2</b>	Bulk pack	10,000/cs
<b>P5049-3</b>	10 racks of 100 each	5,000/cs
<b>P5049-4</b>	Sterile, 10 racks of 100 each	5,000/cs
<b>P5049-5</b>	Stack rack, 2 stacks of 500	5,000/cs
<b>Natural</b>		
<b>P5049-6</b>	Bulk pack	10,000/cs
<b>P5049-7</b>	10 racks of 100 each	5,000/cs
<b>P5049-8</b>	Sterile, 10 racks of 100 each	5,000/cs
<b>P5049-9</b>	Stack rack, 2 stacks of 500	5,000/cs





### AccuTip® Extended-Length 3½ in. Pipettor Tips

**CARDINAL HEALTH** - These extended-length natural color pipettor tips have a 1 to 200 µL capacity. They are designed to reach the bottom of long tubes and to access restricted sample areas. Tips are compatible with Eppendorf®, Finnpiquette®, MLA (up to 200 µL), Pipetman® and Oxford® BenchMate® pipettors.

*Eppendorf® is a registered trademark of Eppendorf Netheler-Hinz GmbH.*

*Finnpiquette® is a registered trademark of Thermo Fisher Scientific.*

*Pipetman® is a registered trademark of Gilson, Inc.*

*Oxford® and BenchMate® are registered trademarks of Oxford Instruments.*

Cat. No.	Description	Qty.
<b>P5049-31</b>	Nonsterile, bulk pack	1,000/pk, 5,000/cs
<b>P5049-32</b>	Nonsterile, 8 racks of 204	1,632/pk, 4,896/cs
<b>P5049-33</b>	Sterile, 8 racks of 204	1,632/pk, 4,896/cs



### AccuTip® 4 in. Nonfilter Pipettor Tips

**CARDINAL HEALTH** - These nonfilter natural color pipettor tips have a 100 to 1,000 µL capacity. It is compatible with Biohit® and Clay Adams™ Selectapette™ pipettors. Nonsterile. Bulk packaged.

*Clay Adams Selectapette™ is a trademark of Becton, Dickinson and Co.*

*Biohit® is a registered trademark of Biohit Oyj.*

Cat. No.	Description	Qty.
<b>P5049-19</b>	Nonfilter pipettor tip	500/pk, 10 pk/cs



### AccuTip® SlimLine Nonfilter Pipettor Tips

**CARDINAL HEALTH** - AccuTip® SlimLine pipettor tip has a 1 to 200 µL capacity with 2¾ in. length. Tip is compatible with Oxford® P-3000 and P-7000 and Helena® pipettors. Nonsterile.

*Oxford® is a registered trademark of Sherwood Services AG.*

*Helena® is a registered trademark of Helena Laboratories.*

Cat. No.	Description	Qty.
<b>P5049-16</b>	AccuTip® SlimLine nonfilter pipettor tip	500/pk, 10 pk/cs

### Filtered Pipette Tips

**CARDINAL HEALTH**




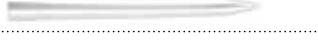

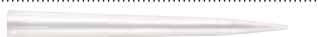
	Cat. No.	Description	Packaging	Color	Qty.
	<b>CHTF113-20</b>	Beveled tip, 2–20 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF113100</b>	Beveled tip, 10–100 µL	Racked sterile	Natural	1,000/pk, 10 pk/cs
	<b>P5049-38</b>	Extended length, 200 µL, Eppendorf fit	Racked sterile	Natural	800/pk, 5 pk/cs
	<b>P5049-40</b>	Extended length, 200 µL	Racked sterile	Natural	800/pk, 5 pk/cs
	<b>P5048-31A</b>	Finepoint tip, 100 µL, extra long	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF118200</b>	Large orifice tip, 20–200 µL, graduated at 50, 100, 200 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF112G</b>	Large orifice tip 100–1,000 µL, extended length, graduated at 100, 200, 500, 1,000 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF102-10</b>	Micropoint tip, 0.1–10 µL, extended length, graduated at 2, 5, 10, 20 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTFA10410</b>	Micropoint tip, 0.1–10 µL, ultra micro, graduated at 2 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF114-10</b>	Micropoint crystal tip, 0.1–10 µL, ultra micro, Eppendorf fit	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF114-20</b>	Micropoint crystal tip, 0.1–20 µL, ultra micro, Eppendorf fit	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF140200</b>	Micropoint tip, 20–200 µL, low retention, graduated at 10, 50, 100, 200 µL	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTF112100</b>	Micropoint tip, 100–1000 µL, extended length, graduated at 100, 200, 500, 1000 µL	Racked sterile	Natural	960/pk, 5 pk/cs

# Liquid Handling

## Pipette Tips and Accessories





### Macro Volume Tips

CARDINAL HEALTH

	Cat. No.	Description	Packaging	Color	Qty.
	<b>P5048-42</b>	200-1000 µL, specific fits for MLA	Bulk	Natural	750/pk, 10 pk/cs
	<b>P5048-43</b>	200-1000 µL, specific fits for MLA	Stack rack	Natural	600/pk, 10 pk/cs
	<b>P5049-24</b>	500-2500 µL, specific fits for Eppendorf	Bulk	Natural	5 pk/cs
	<b>P5049-26</b>	1000-5000 µL, specific fits for Gilson	Bulk	Natural	250/pk, 10 pk/cs
	<b>P5049-25</b>	5000 µL, specific fits for Eppendorf and Biohit	Bulk	Natural	250/pk, 10 pk/cs
	<b>P5049-27</b>	1-10 mL, specific fits for Gilson	Bulk	Natural	200/pk, 10 pk/cs

### Specialty Tips

CARDINAL HEALTH

	Cat. No.	Description	Packaging	Color	Qty.
<b>Large orifice tip, low adhesion, ID 1.5 mm</b>					
	<b>CH118-N</b>	1-200 µL, nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT118R</b>	1-200 µL, nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT118RS</b>	1-200 µL, sterile	Racked sterile	Natural	960/pk, 5 pk/cs
<b>Filtered large orifice tip, low adhesion, ID 1.5 mm</b>					
	<b>CHTF118200</b>	20-200 µL, filtered sterile	Racked sterile	Natural	960/pk, 5 pk/cs
<b>Large orifice tip, low adhesion, graduated at 100, 200, 500, 1000 µL, ID 1.5 mm</b>					
	<b>CH112NXG</b>	100-1250 µL, nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CH112NXGR</b>	100-1250 µL, nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CH112NXGRS</b>	100-1250 µL, sterile	Racked sterile	Natural	960/pk, 5 pk/cs
<b>Filtered large orifice tip, low adhesion, graduated at 100, 200, 500, 1000 µL, ID 1.5 mm</b>					
	<b>CHTF112G</b>	100-1000 µL, filtered sterile	Racked sterile	Natural	960/pk, 5 pk/cs

### Standard Pipette Tips

CARDINAL HEALTH - These tips are non-filtered.



Bulk packaging




Racked packaging












Racked sterile packaging



Reload packaging

	Cat. No.	Description	Packaging	Color	Qty.
<b>Beveled tip, 1-200 µL, universal fit</b>					
	<b>P5048-7</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT070RN</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT070RNS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHT070RLN</b>	Nonsterile	Reload	Natural	960/pk, 5 pk/cs
	<b>P5048-40</b>	Nonsterile	Stack rack	Natural	1,000/pk, 10 pk/cs

### Standard Pipette Tips (continued)

	Cat. No.	Description	Packaging	Color	Qty.
	<b>P5048-10</b>	Nonsterile	Bulk	Yellow	1,000/pk, 10 pk/cs
	<b>CHT090R</b>	Nonsterile	Racked	Yellow	960/pk, 5 pk/cs
	<b>CHT090RS</b>	Sterile	Racked sterile	Yellow	960/pk, 5 pk/cs
	<b>CHT090RL</b>	Nonsterile	Reload	Yellow	960/pk, 5 pk/cs
	<b>P5048-41</b>	Nonsterile	Stack rack	Yellow	1,000/pk, 10 pk/cs
<b>Beveled tip, 1–200 µL, graduated at 10, 50, 100 µL, universal fit</b>					
	<b>CH113-GN</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT113RN</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT113RNS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHT113RLN</b>	Nonsterile	Reload	Natural	960/pk, 5 pk/cs
<b>Micropoint tip, 0.1–10 µL extended length, graduated at 2, 5, 10, 20 µL, universal fit</b>					
	<b>P5048-4</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CH102</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT102R</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT102RS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
<b>Micropoint tip, 0.1–10 µL ultra micro, graduated at 2 µL, universal fit</b>					
	<b>CHTA104R</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHTA104RS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHTA104RL</b>	Nonsterile	Reload	Natural	960/pk, 5 pk/cs
<b>Micropoint crystal tip, 0.1–20 µL ultra micro, Eppendorf fit</b>					
	<b>CH114BNS</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT114R</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT114RS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
<b>Micropoint tip, 5–300 µL beveled</b>					
	<b>CH106</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CHT106R</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CHT106RS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CHT106RL</b>	Nonsterile	Reload	Natural	960/pk, 5 pk/cs
<b>Micropoint tip, 100–1250 µL extra long, graduated at 100, 200, 500, 1000 µL, universal fit</b>					
	<b>CH112NXL</b>	Nonsterile	Bulk	Natural	1,000/pk, 10 pk/cs
	<b>CH112NXLRL</b>	Nonsterile	Racked	Natural	960/pk, 5 pk/cs
	<b>CH112NXLRS</b>	Sterile	Racked sterile	Natural	960/pk, 5 pk/cs
	<b>CH112NXLRL</b>	Nonsterile	Reload	Natural	960/pk, 5 pk/cs
	<b>CH112XL</b>	Nonsterile	Bulk	Blue	1,000/pk, 10 pk/cs
	<b>CHT112XLRL</b>	Nonsterile	Racked	Blue	960/pk, 5 pk/cs
	<b>CHT112XLRS</b>	Sterile	Racked sterile	Blue	960/pk, 5 pk/cs
	<b>CHT112XLRL</b>	Nonsterile	Reload	Blue	960/pk, 5 pk/cs
<b>Universal Fit, 100–1000 µL, Graduated 250, 500, 1000 µL</b>					
	<b>P5049-9</b>	Nonsterile	Stack rack	Natural	1,000/pk, 5 pk/cs



### Tip Racks

**CARDINAL HEALTH** - These nonsterile tip racks are easy to use. Carrier locks onto rack with a quick, press-and-snap action. When empty, recycle or dispose of the carrier and reuse the rack.

Cat. No.	Description	Size	Qty.
<b>CHT10ER</b>	Tip rack	10–20 µL	10/pk, 5/cs
<b>CHT200ER</b>	Tip rack	200–300 µL	10/pk, 5/cs
<b>CHT1000ER</b>	Tip rack	1,000–1,250 µL	10/pk, 5/cs

# Liquid Handling

## Pipette Tips and Accessories

### Pipet Washer/Dryer

**BOEKEL** - This convenient unit lets you safely wash and dry 7 x 375 mm pipettes in the same chamber. Water is circulated through and over the pipettes at the rate of 1½ to 3 gpm. At the end of the desired washing time, the unit drains to permit warm air circulation, which dries the pipettes in 1 to 1½ hours. Pipettes should be soaked in a chromic acid solution prior to washing. During washing, an Alcotabs® Detergent Tablet C6310 may be added to loosen stubborn particles. The tubular 195W heating element mounts at the center of the chamber bottom. It heats the air entering the siphon tubes to create a convection current and exits through the gap between the lid and the chamber. The unit is stainless steel, with the exception of external hose connections and has a single-wall, rolled edge. Bath has side-mounted siphon tube housing and a serrated inlet for rubber tubing. The unit is designed with an air gap between the water inlet and water in the chamber. This prevents back flow of contaminated water in the event of a pressure interruption. An outlet on the base will accommodate a threaded drainpipe of 1 in. IPS. Each washer/dryer includes a lid, pipette holder P5260-1, a three-prong, rubber-covered line cord with feed-through switch plug and an adapter with ground connection.



### BRAND PD-Tip™ Syringe Tips

**BRANDTECH SCIENTIFIC** - BRAND PD-Tip™ syringe tips fit all repeating pipettes using standard sized syringe tips and are automatically size-recognized by the BRAND HandyStep® electronic and Rainin Auto Rep E. PD-Tips are manufactured from virgin polypropylene and high-density polyethylene without lubricants or chemical additives to prevent reagent contamination.

Cat. No.	Mfr. No.	Description	Qty.
<b>P4000-332A</b>	702368	Mixed pack	100/pk
<b>P4000-442A</b>	702402	0.1 mL, nonsterile	100/pk
<b>P4000-333A</b>	702370	0.5 mL, nonsterile	100/pk
<b>P4000-334A</b>	702372	1.25 mL, nonsterile	100/pk
<b>P4000-335A</b>	702374	2.5 mL, nonsterile	100/pk
<b>P4000-336A</b>	702376	5 mL, nonsterile	100/pk
<b>P4000-337A</b>	702378	12.5 mL, nonsterile	100/pk
<b>P4000-338A</b>	702380	25 mL, nonsterile	50/pk
<b>P4000-339A</b>	702382	50 mL, nonsterile	25/pk
<b>P4000-195A</b>	702398	Adapter for pd-tips	10/pk
<b>P4000-444A</b>	702683	0.1 mL, sterile	100/pk
<b>P4000-445A</b>	702684	0.5 mL, sterile	100/pk
<b>P4000-446A</b>	702686	1.25 mL, sterile	100/pk
<b>P4000-447A</b>	702688	2.5 mL, sterile	100/pk
<b>P4000-448A</b>	702690	5 mL, sterile	100/pk
<b>P4000-449A</b>	702692	12.5 mL, sterile	100/pk
<b>P4000-450A</b>	702694	25 mL, sterile	25/pk
<b>P4000-451A</b>	702696	50 mL, sterile	25/pk
<b>P4000-452A</b>	702699	Adapter for 25 mL and 50 mL	25/pk

#### Specifications:

Inlet connection ..... ½ in. IPS serrated

Outlet connection ..... 1 in. IPS threaded

Power requirements ..... 115 V, 60 Hz

#### Dimensions:

Bath ..... 20½ D x 0.018 thick x 6 in. dia.

Overall ..... 23¾ H x 10½ in. dia.

Cat. No.	Mfr. No.	Description	Qty.
<b>P5257A</b>	137100	Washer/dryer	1/ea

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### Costar® Reagent Reservoirs

CORNING - Designed for use with multichannel pipettors, these disposable reservoirs are made of sterile, modified polystyrene.



Cat. No.	Mfr. No.	Description	Qty.
<b>P5082-128</b>	4870	50 mL, 5/bag	200/cs
<b>CC4872</b>	4872	100 mL, 5/bag	200/cs



### Costar® 1–200 mL Universal Pipette Tips

CORNING - These pipette tips have been precision-engineered to fit most major brand single and multichannel pipettors. A beveled orifice helps ensure consistent pickup and delivery. The tips feature multiple sealing rings to assure a snug and consistent fit. All racked tips are certified RNase- and DNase-free and non-pyrogenic.

Cat. No.	Mfr. No.	Description	Qty.
<b>96-tip racks</b>			
<b>CC4864</b>	4864	Sterile	960/cs
<b>P5082-121</b>	4863	Nonsterile	960/cs



### Combitip® Advanced Biopur Positive Displacement Tips

EPPENDORF - These tips are certified sterile and pyrogen-, RNase-, DNase-, DNA, PCR inhibitor and ATP-free. For use with Repeater® Pipettor P5063-20, Repeater® Plus Pipettor P5063-200, Repeater® Pro and Repeater® Stream/Xstream pipettor. Tips are individually-wrapped.

Cat. No.	Mfr. No.	Description	Qty.
<b>30089618</b>	0030089618	0.1 mL	100/cs
<b>30089626</b>	0030089626	0.2 mL	100/cs
<b>30089634</b>	0030089634	0.5 mL	100/cs
<b>30089642</b>	0030089642	1 mL	100/cs
<b>30089650</b>	0030089650	2.5 mL	100/cs
<b>30089669</b>	0030089669	5 mL	100/cs
<b>30089677</b>	0030089677	10 mL	100/cs
<b>30089685</b>	0030089685	25 mL	100/cs
<b>30089693</b>	0030089693	50 mL	100/cs
<b>30089731</b>	0030089731	Adapter - 25 mL	7/cs
<b>30089740</b>	0030089740	Adapter - 50 mL	7/cs

### Combitip® Advanced Positive Displacement Tips

EPPENDORF - These tips function according to the positive-displacement principle, ensuring that the correct volume is dispensed with regard to the density and viscosity of the liquid used. The positive-displacement system provides safer dispensing of radioactive and toxic substances as well as solutions with high vapor pressure. No aerosols are formed. In addition, the combination of the polyethylene plunger and polypropylene cylinder makes these tips ideal for use with aggressive reagents. They are for use with Repeater®, Repeater® Pro, Repeater® Plus, Repeater® Stream, Repeater® XStream dispensers and the EDOS automatic dispensing system.

Cat. No.	Mfr. No.	Description	Qty.
<b>Nonsterile</b>			
<b>30089413</b>	0030089413	0.2 mL	100/cs
<b>Sterile</b>			
<b>30089529</b>	0030089529	0.2 mL	100/cs
<b>30089588</b>	0030089588	25 mL	100/cs
<b>30089596</b>	0030089596	50 mL	100/cs



# Liquid Handling

## Pipette Tips and Accessories



### Combitip® Biopur Positive Displacement Tips

EPPENDORF - Eppendorf® Biopur tips are manufactured to be pyrogen-, RNase-, DNA- and ATP-free and sterile. A quality certificate accompanies each package of tips for your written assurance of purity. The tips are radiation sterilized, tested for sterility and endotoxin level and monitored for DNA, RNase and ATP concentrations. These tips are molded from dye-free resins to reduce the presence of contaminants that could interfere with assay results. Automated production and packaging processes reduce contamination of the tips from both microorganisms and human contact. This high degree of purity meets a variety of critical applications. Tips are for use with the original Eppendorf Repeater® pipette.

Cat. No.	Mfr. No.	Description	Qty.
P5062-78	22495101	1.25 mL	100/cs
P5062-91	22495208	12.5 mL	100/cs



### Combitip® Standard Quality Tips

EPPENDORF - These tips form a reliable and precise system for positive-displacement dispensing in combination with the Repeater® pipette.

Cat. No.	Mfr. No.	Description	Qty.
P5063-28	22261100	1.25 mL	100/pk
P5063-27	22261401	12.5 mL	100/pk



### epT.I.P.S.® Dualfilter

EPPENDORF - These tips feature a two-phase filter for contamination protection. The tips are manufactured to the highest possible quality from pure, non-recycled materials under clean room conditions. They are characterized by defined flow dynamics, low wettability and high thermal stability. They are certified pyrogen-free and PCR-clean (free from human DNA, DNase, RNase and PCR-inhibiting substances).

Cat. No.	Mfr. No.	Description	Qty.
P5063-608	022491211	0.1 to 10 µL	960/cs
P5063-610	022491270	2 to 20 µL	960/cs
P5063-609	022491296	2 to 200 µL	960/cs
P5063-611	022491261	100 to 5,000 µL	120/cs



### Pipette Tips

EPPENDORF - These pipette tips satisfy the stringent requirements of dependability, reproducibility and the trend towards smaller sample volumes. Ergonomically optimized cone geometry allows for a perfect match of every Eppendorf pipette tip to every Eppendorf pipette. The tips are also universally applicable for use with pipettes from other manufacturers. The perfect fitting results in consistently reduced tip attachment and ejection forces, while ensuring complete sealing. Additional convenient features of the tips include fine volume graduations, a soft, flexible tip cone and improved access to a wider variety of tubes and wells.

Cat. No.	Mfr. No.	Description	Qty.
<b>2 to 200 µL tips</b>			
P5062-114	22492039	Bulk pack	1,000/pk
P5062-120A	22491539	Reloads, 5 trays of 96 tips	480/pk
P5062-117	22491938	Rack	960/bx
<b>20 to 300 µL tips</b>			
P5062-119	22491547	Reloads, 10 trays of 96 tips	960/pk
<b>50 to 1,000 µL tips</b>			
P5062-121	22492055	Bulk pack	1,000/bx
P5062-125	22491954	Rack	960/cs
P5062-92	22491555	Reloads	192/pk
<b>100 to 5,000 µL tip</b>			
P5062-127	22492080	Bulk pack	500/cs

# Liquid Handling

## Pipette Tips and Accessories



### Finntip Filtered Pipette Tips

THERMO SCIENTIFIC - Finntip™ filtered pipette tips are designed, developed and manufactured to fit Thermo Scientific™ Finnpipette™ pipettes for general laboratory use. These sterile filter tips incorporate an inert hydrophobic polyethylene filter to help protect your samples and pipettes against contamination from aerosols. Tips are ideal for PCR procedures, for dispensing DNA/RNA solutions, infectious materials, aerosol-emitting and radioactive samples. Cannot be autoclaved. Supplied in vacuum-sealed, irradiated trays. Certified to be free from DNA, DNase, RNase and endotoxins.

Cat. No.	Mfr. No.	Description	Qty.
<b>P5055-154</b>	94052000	Micro - 0.2–10 µL	960/cs
<b>P5055-600</b>	94052100	10 µL	960/cs
<b>P5055-601</b>	94052200	100 µL	960/cs
<b>P5055-602</b>	94052300	200 µL	960/cs
<b>P5055-352</b>	94052550	5 mL	270/cs



### Finntip Pipette Tips

THERMO SCIENTIFIC - Finntip™ pipette tips are designed, developed and manufactured to fit Thermo Scientific™ Finnpipette™ pipettes for general laboratory use. Tips are manufactured using high quality raw materials and the latest molding techniques. Finntip pipette tips are designed to have uniformly smooth, hydrophobic surfaces on the inside and outside of the tips. This helps to prevent liquid retention and ensure accurate and precise pipetting.

Cat. No.	Mfr. No.	Description	Qty.
<b>P5055-346</b>	9402070	5 mL	1/ea



### Finntip Stepper Tips

THERMO SCIENTIFIC - Finntip™ Stepper tips are a positive displacement, plunger-style tip for general laboratory use. Use with Thermo Scientific™ Finnpipette™ Stepper Pipette P5055-325. Nonsterile tips are bulk packaged.

Cat. No.	Mfr. No.	Description	Qty.
<b>P5055-330</b>	9404180	Finntip Stepper 1.25 mL dispensing volume	100/bx



### Finntip Pipette Tips

THERMO SCIENTIFIC - Finntip™ pipette tips are designed, developed and manufactured to fit Thermo Scientific™ Finnpipette™ pipettes.

This system provides optimal liquid handling results for general laboratory use ensures the precision and accuracy of Finnpipette pipettes. Tips are supplied sterile or nonsterile and are bulk packed in bags or boxes or packed vertically in trays for convenience.

Cat. No.	Mfr. No.	Description	Qty.
<b>Finntip 10 tips, 0.2 to 10 µL</b>			
<b>P5055-160</b>	9400300	Tray pack, 10 trays of 96	960/cs
<b>Finntip 250 universal tips, 0.5 to 250 µL</b>			
<b>P5055-41</b>	9400230	Bulk pack	1,000/bg
<b>P5055-43A</b>	9400260	Tray pack, 10 trays of 96	960/cs
<b>P5055-318</b>	9400263	Tray pack, 10 trays of 96, sterile	960/cs
<b>Finntip 300 tips, 5 to 300 µL</b>			
<b>P5055-145</b>	9401250	Tray pack, 10 trays of 96	960/cs
<b>P5055-87</b>	9401253	Tray pack, 10 trays of 96, sterile	960/cs
<b>Finntip 1000 tips, 100 to 1,000 µL</b>			
<b>P5055-51B</b>	9401030	Bulk pack	1,000/bg
<b>P5055-936</b>	9401110	10 racks of 96	960/cs
<b>Finntip 1000 Extended Tips, 100 to 1,000 µL</b>			
<b>P5055-937A</b>	9401420	Tray pack, 5 trays of 96	480/cs
<b>Finntip 5mL tips, 1 to 5 mL</b>			
<b>P5055-169</b>	9402050	Bulk pack	75/bx
<b>P5055-58A</b>	9402030	Bulk pack	500/bg
<b>P5055-59A</b>	9402010	Bulk pack	3,000/cs
<b>Finntip 10mL tips, 2 to 10 mL</b>			
<b>P5055-61</b>	9402151	Bulk pack	100/bg

**Note:** The Finntip Flex offers the ergonomic solution with lower attachment and ejection forces not the standard Finntip listed in this entry

# Liquid Handling

## Pipette Tips and Accessories



### Thermo Scientific ART™ REACH™ Extended-Length Barrier Pipette Tips

THERMO SCIENTIFIC - Gain an extra level of contamination control with the ART™ REACH™ pipette tips. The extended length allows you to reach to the bottom of 0.5, 1.5, 2, 15 and 50 mL tubes and many other styles of culture tubes without your pipette coming in contact with the inside of your sample vessel. Plus, tips feature the ART self-sealing barrier that seals when exposed to aerosol and liquid contaminants, thus trapping them inside the barrier. This helps prevent cross contamination when you use these tips while contaminants can pass more easily through ordinary pipette tip filters. The SoftFit™ design of these tips allows them to fit easily on most pipettes, reducing hand fatigue. Some of the tips also feature MicroPoint™ design, which minimizes surface area around the tip's orifice, reducing surface tension and allowing for an accurate dispense. All are certified DNase-, RNase- and pyrogen-free. Choose from three packaging configurations: racked (96 or 100 presterilized tips per rack), individually-wrapped (500 presterilized tips in a freestanding, zip-lock bag) and bulk (1,000 nonsterile tips in a freestanding, zip-lock bag). Racked tips come with a transfer tray that makes reloading tips convenient with no snaps, buttons or machines needed.

Cat. No.	Mfr. No.	Description	Qty.
P5059-140B	2140	10 µL volume, 1.71 in. L tip with MicroPoint™ design	960/pk, 5 pk/cs
P5059-23	2159P	100 µL volume, 3.59 in. L tip	768/pk, 4 pk/cs
P5059-982	2160P	200 µL volume, 3.59 in. L tip	768/pk, 4 pk/cs
P5059-394	2079	1,000 µL volume, 4.66 in. L tip	800/pk, 4 pk/cs



### Thermo Scientific ART™ Wide-Bore Genomic Barrier Pipette Tips

THERMO SCIENTIFIC - These wide-bore tips are ideal for working with genomic DNA, fragile cell lines and other viscous materials. With a distal end orifice larger than that of standard pipette tips, these tips provide you with the flexibility required for handling difficult to pipette samples. Tips also feature the ART self-sealing barrier that seals when exposed to aerosol and liquid contaminants, thus trapping them inside the barrier. This helps prevent cross contamination when you use these tips while contaminants can pass more easily through ordinary pipette tip filters. Tips are certified DNase-, RNase- and pyrogen-free. Racked tips come with a transfer tray that makes reloading tips convenient with no snaps, buttons or machines needed.

Cat. No.	Mfr. No.	Description	Qty.
P5059-201	2079G	Regular length tip, 3.36 in., 1,000 µL tips	800/pk, 4 pk/cs

### Thermo Scientific ART™ Self-Sealing Barrier Pipette Tips



THERMO SCIENTIFIC - ART™ tips use a self-sealing barrier that seals when exposed to aerosol and liquid contaminants, thus trapping them inside the barrier. This helps prevent cross contamination when you use these tips while contaminants can pass more easily through ordinary pipette tip filters. ART™ tips are ideal for nucleic amplification procedures, pipetting of radioactive samples or any application where critical sample handling is required. These tips are certified DNase-, RNase- and pyrogen-free. The MicroPoint™ design of some low-volume ART™ tips features a smaller profile than standard blunt-end pipette tips and are more narrow than beveled-end tips. This increases precision, especially when you are working with low-volume samples. Choose from three packaging configurations: racked (96 or 100 presterilized tips per rack), individually-wrapped (500 presterilized tips in a freestanding, zip-lock bag) and bulk (1,000 nonsterile tips in a freestanding, zip-lock bag). Racked tips come in a transfer tray that makes reloading tips convenient with no snaps, buttons or machines needed.

Cat. No.	Mfr. No.	Description	Qty.
<b>10 µL tips</b>			
P5059-21	2139	Tip with MicroPoint™ design, 1.23 in.	960/pk, 5 pk/cs
P5059-15	2139F	10F tip with MicroPoint™ design, 2.32 in.	960/pk, 5 pk/cs
P5059-13	2149E	20E ultramicro tip, 1.8 in	960/pk, 5 pk/cs
<b>20 to 50 µL tips</b>			
P5059-10C	2149P	20 µL tip with MicroPoint™ design, 2 in.	960/pk, 5 pk/cs
<b>100 µL tips</b>			
P5059-19	2065	Tip with MicroPoint™ design, 2.32 in.	960/pk, 5 pk/cs
P5059-20B	2065E	Tip with MicroPoint™ design, 2 in.	960/pk, 5 pk/cs
<b>200 µL tips</b>			
P5059-11B	2069	Tip with MicroPoint™ design, 2.32 in.	960/pk, 5 pk/cs
P5059-22	2770	Tip with SoftFit™ universal design for multichannel pipettes, 2.06 in.	960/pk, 5 pk/cs
<b>300 µL tips</b>			
P5059-981	2070	Tip with MicroPoint™ design, 2.3 in.	960/pk, 5 pk/cs
<b>1,000 µL tips</b>			
P5059-983	2279	Tip with SoftFit™ universal design for multichannel pipettes, 3.13 in.	800/pk, 4 pk/cs
P5059-12	2079E	E design tip, 3.47 in.	800/pk, 4 pk/cs



### Thermo Scientific BioRobotix™ Tips

THERMO SCIENTIFIC - Use these tips with Tecan® brand Genesis®, MiniPrep, MultiPROBE®, Tecan Freedom EVO and Packard II HT workstation. ART tips feature self-sealing filters that protect against cross-contamination.

Cat. No.	Mfr. No.	Description	Qty.
902-011A	902-011	ART tip, sterile, 50 µL liquid-sensing tips, 58.2 mm long	960/cs



# Liquid Handling

## Pipette Tips and Accessories



### MLA Tips for MLA Pipettors

VISTALAB TECHNOLOGIES - MLA tips are quality molded and designed to function as a pipetting system when used with MLA pipettors. High-grade 100% virgin polypropylene assures surface smoothness and regularity for a uniform liquid stream.

Cat. No.	Mfr. No.	Description	Qty.
<b>Small, 5 to 250 <math>\mu</math>L</b>			
P5064-902S	2025	Sterile, individually-wrapped	200/pk
P5064-902	9025	5 stacked trays	1,000/pk
P5064-902P	4025	Bulk, airtight plastic storage container	1,000/pk
P5064-902E	4225	Bulk, Econo-Pak™ bag	1,000/pk
<b>Large, 201 to 1,000 <math>\mu</math>L</b>			
P5064-903S	2026	Sterile, individually-wrapped	200/pk
P5064-903	9026	3 dispenser trays	600/pk
P5064-903P	4026	Bulk, airtight plastic storage container	750/pk
P5064-903E	4226	Bulk, Econo-Pak™ bag	1,000/pk
<b>Macro, 1 to 5 mL</b>			
P5078-900	9048	Dense pack tray	100/pk



### Replacement Nozzle Insert for MLA Pipettors

VISTALAB TECHNOLOGIES

Cat. No.	Mfr. No.	Description	Qty.
P5064-850	8066	Replacement nozzle insert	10/pk



### Reagent Reservoirs

VISTALAB TECHNOLOGIES - Use these sterile, disposable reservoirs with multichannel pipettors or for large liquid volumes. These reagent reservoirs feature sturdy construction, pour-off spouts on each corner and a trough within a trough bottom, allowing for complete recovery.

Cat. No.	Mfr. No.	Description	Qty.
<b>25 mL reservoirs</b>			
P5078-12	3054-1002	Bulk pack	100/cs
P5078-22	3054-2002	Bulk pack	200/cs
P5078-13	3054-1003	Individually-wrapped	50/cs
<b>25 mL divided reservoir</b>			
P5078-14	3054-1004	Bulk pack	100/cs

### VistaLab Tips

VISTALAB TECHNOLOGIES - To maximize the exceptional performance and benefits of Ovation® pipettes, we recommend using VistaLab tips. "One-size-fits-all" tips can have negative effects on ease of use and performance.



VistaLab tips provide a perfect fit every time and are available in a variety of volume sizes and packaging configurations. Whether your application requires tips that are sterile, pyrogen-free, RNase/DNase certified, trace metal certified, or filtered, there's a VistaLab tip to meet your needs.

Cat. No.	Mfr. No.	Description	Qty.
<b>VistaRak for Ovation®, 25 <math>\mu</math>L</b>			
4060-1002	4060-1002	Nonsterile	960/rk 5 rk /cs
4060-1332	4060-1332	Filtered, sterile, pyrogen-free, RNase-DNase-certified	960/rk 5 rk /cs
<b>VistaRak for Ovation®, 250 <math>\mu</math>L</b>			
P5500-410	4060-2004	Nonsterile	192/rk 5 rk /cs
P5500-200	4060-2332	Filtered, sterile, pyrogen-free, RNase-DNase-certified	192/rk 5 rk /cs
<b>VistaRak for Ovation®, 1,250 <math>\mu</math>L</b>			
P5500-420	4060-3004	Nonsterile	192/rk 5 rk /cs
P5500-250	4060-3332	Filtered, sterile, pyrogen-free, RNase-DNase-certified	192/rk 5 rk /cs

### Tips for Multichannel Micropipettors

WHEATON - These 5 to 200  $\mu$ L pipettor tips are made from virgin polypropylene.



Cat. No.	Mfr. No.	Description	Qty.
P5083-17	851246	8 x 12 row rack configuration, autoclavable, polypropylene box	960/cs

# Liquid Handling

## Serological Pipettes



### Disposable Plastic Serological Pipettes

**CARDINAL HEALTH** - These clean, sterile pipettes are calibrated to deliver with blowout and are packaged ready-to-use. They feature a uniform drawn or molded tip and molded, cotton-plugged top ends. Sharp, black ascending and descending graduations simplify fluid measuring and dispensing. Individually-wrapped pipettes come in paper/plastic packaging and are color-coded for easy size identification. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Description	Qty.
<b>Individually-wrapped</b>		
P4676-11X	±0.02 mL	1,000/cs
P4676-12A	±0.04 mL	500/cs
P4676-15	±0.10 mL	200/cs
P4676-110	±0.20 mL	200/cs
P4676-25A	±0.50 mL	200/cs
<b>Multipack</b>		
P4676-1X	±0.02 mL	1,000/cs
P4676-2	±0.04 mL	500/cs
P4676-5	±0.10 mL	500/cs
P4676-10A	±0.20 mL	500/cs
P4676-7	±0.50 mL	200/cs



### Falcon® Disposable Serological Pipets

**CORNING** - Falcon™ serological pipets offer crisp, dark, easy-to-read standard graduations and negative graduations for overfill capacity. All except the 1 mL size have reverse graduations. A graduation alignment marker allows graduations to be brought to line of sight prior to complete removal from packaging. The pipets are gamma irradiated, nonpyrogenic, color coded and plugged. Choose from individually-wrapped or multipack, depending on your requirements.

Cat. No.	Mfr. No.	Description	Qty.
<b>Individually-packaged pipets, paper/plastic thermoformed wrap</b>			
P4675-125	357525	25 mL	200/cs
P4675-25X*	357535	25 mL	200/cs
P4675-111	357550	50 mL	4/cs
<b>Multipacked pipets</b>			
P4675-4	357508	2 mL	1,000/cs

\*Extended capacity



### PYREX® Disposable Serological Pipettes

**CORNING** - These pipettes have a long, slender, tapered tip calibrated to deliver with blowout. The pipettes are packaged individually in dispenser shelf packs for small-volume requirements or in multipacks to permit easy access to several pipettes at a time without contaminating the entire case. The pipettes are also available non-plugged and nonsterile in bulk packs with negative graduations. Color-coded packaging allows easy identification of pipette size. Individually-wrapped pipettes are color-coded in Steri-View™ wrapping (one side paper, one side plastic). Multipacks have color-coded tear strips on the bag. Bulk pack pipette packages are not color-coded. Choose sterile or nonsterile. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
<b>Sterile, plugged, individually-wrapped</b>			
P4685-2	7077-1N	Yellow	200/pk, 4 pk/cs
P4685-3	7077-2N	Green	180/pk, 4 pk/cs
P4685-4	7077-5N	Blue	120/pk, 6 pk/cs
P4685-5	7077-10N	Orange	100/pk, 6 pk/cs
<b>Sterile, plugged, multipack</b>			
P4685-14	7078-2N	Green	175/pk, 4 pk/cs
P4685-15	7078-5N	Blue	240/pk, 4 pk/cs
P4685-16	7078-10N	Orange	120/pk, 6 pk/cs
<b>Nonsterile, non-plugged, bulk pack</b>			
P4685-26	7079-1N	1 mL cap	250/pk, 4 pk/cs
P4685-27	7079-2N	2 mL cap	175/pk, 4 pk/cs
P4685-28	7079-5N	5 mL cap	240/pk, 4 pk/cs
P4685-29	7079-10N	10 mL cap	120/pk, 6 pk/cs

### PYREX® Disposable Sterile Serological Pipettes

**CORNING** - These borosilicate glass serological pipettes are calibrated to deliver and come in sealed polyethylene bags for sterility. Standard-tip pipettes are packaged in convenient flip-top canister packs. Color-coded packaging allows easy identification of pipette size. Choose from wide-tip pipettes, which help prevent clogging and standard-tip pipettes. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
<b>Standard-tip pipettes</b>			
P4646-21	7078D-1	Yellow	500/cs
P4646-25	7078D-5	Blue	400/cs
P4646-210	7078D-10	Orange	400/cs

### PYREX® “Shorty” Disposable Pipettes

CORNING - This disposable borosilicate glass pipette is calibrated to deliver and is ideal for use in tissue culture work. Negative graduations also make it useful for serological and measuring procedures. Pipette has a tooled top and is compatible with pipetting devices. It is approximately 3 in. shorter than standard disposable serological pipets. Pipette comes in color-coded packaging for easy identification. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
P4648-10	7078B-10	Orange, 10 mL	400/cs



### Stripette® Disposable Plastic Serological Pipettes

CORNING - The special color-coded vertical stripe on these pipettes makes volume reading easy and allows convenient identification by size. The pipettes are constructed of high-grade polystyrene with dark graduations. The bidirectional graduations on the 5, 10 and 25 mL size pipettes provide you with a choice of reading ascending or descending scales, as your application requires. An integral extruded tip in the 1 and 5 mL sizes reduces chance of leakage in the tip area. Pipettes are sterile and certified non-pyrogenic. Available individually-wrapped in plastic/paper and all-plastic packaging, bulk packed in bags and cleanroom packed. Pipettes that are cleanroom packed are individually-wrapped in paper/plastic wrap, triple bagged and have a sterility assurance level (SAL) of 10<sup>-6</sup>. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
<b>Individually-wrapped, paper/plastic wrap</b>			
CC4488	4488	10 mL, orange	200/cs
<b>Individually-wrapped, all-plastic wrap</b>			
CC4051	4051	5 mL, blue	200/cs
CC4101	4101	10 mL, orange	200/cs
CC4251	4251	25 mL, red	200/cs
<b>Bulk packed</b>			
CC4010	4010	1 mL, yellow	1,000/cs
CC4050	4050	5 mL, blue	500/cs



### Pipette Verification Service Kits

STRECK - These kits enable laboratories to verify automatic pipettes without purchasing equipment or interrupting use of pipettes. Each kit contains six vials of receiver and one or two vials of pipetting solution. Using the pipette or dilutor to be verified, perform six simple titrations. Return the kit to Streck for analysis. You will receive a report that includes mean volume delivered, standard deviation (SD), coefficient of variation (CV) and percent recovery. Use the data to determine the performance of the pipettes and file the report for inspection purposes. Model P5080-48 is for use with 10 to 200 µL pipettes and model P5080-47 is for use with 201 to 5,000 µL pipettes.

Cat. No.	Mfr. No.	Description	Qty.
P5080-48	271278	1 x 2 mL pipetting solution and 6 x 1 mL receiver solution	1/ea
P5080-47	271279	2 x 16.5 mL pipetting solution and 6 x 10 mL receiver solution	1/ea



### Pipettor Calibration Kits

VISTALAB TECHNOLOGIES - This pipettor calibration kit is specifically designed to test the delivered volume of any laboratory pipette, pipettor or diluter within a range of 10 to 1,000 µL.

The kit employs standard colorimetric principles and a conventional spectrophotometer (not included). The kit requires no special scales and is completely self-contained. Complete with graph paper, reagents, 12 mm glass cuvettes, QC log sheets and instructions.

Cat. No.	Mfr. No.	Description	Qty.
P5064-1	9080	For use with discrete sampling spectrophotometers	30/kt
P5064-3	9082	For use with discrete sampling spectrophotometers	100/kt, 5 kt/ea

# Liquid Handling

## Transfer Pipettes



### Disposable General-Purpose Transfer Pipettes

AZER SCIENTIFIC - These disposable, nonsterile polyethylene pipettes with bulb are designed for the quick and safe transfer of fluids and can help you prevent cross contamination of samples. The pipettes are ideal for use in most laboratories and research facilities, especially in hematology, urinalysis, chemistry and blood banking applications.

Cat. No.	Mfr. No.	Description	Qty.
ES-0138	ES-0138	Graduated pipette, 7 mL capacity	500/pk, 10 pk/cs



### Disposable Pasteur Pipettes

COPAN DIAGNOSTICS - Ideal for transferring and dispensing liquids safely in all types of laboratories, these pipettes help eliminate the risk of cross-contamination. They are produced in low-density polyethylene. They can be heat-sealed and frozen at very low temperatures. Sterile pipettes are packaged in medical-grade paper and atoxic film.

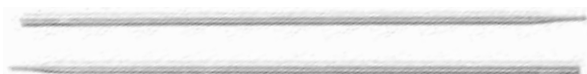
Cat. No.	Mfr. No.	Description	Qty.
<b>Sterile graduated pipettes</b>			
P6214-20S	201CS20	5 mL - 20/pouch	500/bx
<b>Nonsterile general-purpose pipettes</b>			
CP6214-5B	219C	3 mL	500/bx



### Corning® Disposable Glass Pasteur Pipets

CORNING - Use these disposable glass pipets for rapid non-volumetric transfer work in bacteriology, immunology, hematology and serology studies as well as blood bank and clinical chemistry procedures. One-time use helps reduce cross-contamination. The nonsterile, non-plugged pipets feature a constriction 1 in. below the top to facilitate plugging. Do not pipette by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
P5216-1A	7095B-5X	5.75 in.	1,000/cs
P5216-2A	7095B-9	9 in.	1,000/cs



### Falcon® Disposable Sterile Aspirating Pipets

CORNING - These individually-wrapped, easy-to-use aspirating pipets are unplugged and have no graduations. Made of polystyrene, they are sterile and nonpyrogenic. Do not pipet by mouth. Use of a mechanical pipetting device is suggested.

Cat. No.	Mfr. No.	Description	Qty.
P4675-16	357558	2 mL	200/cs



### Falcon® Transfer Pipets

CORNING - These 6 in. polyethylene transfer pipets are graduated at 1 and 2 mL and draw 3 mL with just one squeeze. The sterile pipets are individually-wrapped, and nonsterile pipets are bulk packaged 500 per dispenser.

Cat. No.	Mfr. No.	Description	Qty.
7575	357575	Sterile	500/cs
7524	357524	Nonsterile	1,000/cs



### Transfer Pipettes

EVERGREEN SCIENTIFIC - These one-piece transfer pipettes eliminate the preparation and risks of using glass Pasteur pipettes. The polyethylene material is shatterproof, inert and has a low-affinity surface to minimize sample loss due to binding.

Cat. No.	Mfr. No.	Description	Qty.
230157702A	230-1577-020	3.5 mL, general purpose	500/pk



### Sterile Fine-Tip Transfer Pipette

SARSTEDT - LD-PE transfer pipette has a 3.5 mL bulb volume and molded graduation marks in 0.25 mL increments to 1 mL. The transfer pipette features a fine tip with a drop size range of 30 to 45 µL. Transfer pipettes are packaged 20 per bag and sterile.

Cat. No.	Mfr. No.	Description	Qty.
5861172020	86.1172.020	Volume: 3.5 mL	1,000/pk, 4 pk/cs



### Dropette® Disposable Transfer Pipettes

SIMPORT - These disposable LDPE transfer pipettes are shatter- and break-resistant. Pipettes are safe for use in liquid nitrogen and feature a uniform drop size. There are no bulbs to insert or remove as the pipettes come complete and draw 3.2 mL. Temperature range: -196°C to +90°C. Pipette is graduated at 0.5, 1, 1.5 and 2 mL. Pipette has a total length of 15.5 cm and a capacity of 7 mL.

Cat. No.	Mfr. No.	Description	Qty.
P200-72	P200-72	Nonsterile	500/pk, 10 pk/cs

### Thermo Scientific™ Samco™ Mini Fine Tip POC Transfer Pipette

THERMO SCIENTIFIC



Cat. No.	Mfr. No.	Description	Qty.
P5214-620A	697NL	Transfer pipette - 0.025 mL	500/pk, 10 pk/cs



### Thermo Scientific™ Samco™ Fine Tip Transfer Pipettes

THERMO SCIENTIFIC - These fine tip transfer pipettes are excellent for the precise dispensing of small drops (45 to 50 per mL) into microbiological ID strips, ELISA plates and other small volume containers such as microcentrifuge and precipitation tubes. They are also ideal for filling electrophoresis wells, spotting chromatography plates and other similar applications.

Cat. No.	Mfr. No.	Description	Qty.
<b>Extended fine tip, standard</b>			
P5214-26	235	Nonsterile - 15.7 cm total length - 5.8 mL capacity - 3.5 mL bulb draw	500/pk, 10 pk/cs
P5214-238	235-205	Sterile - 15.7 cm total length - 5.8 mL capacity - 3.5 mL bulb draw	500/pk, 8 pk/cs
<b>Extended fine tip, small bulb</b>			
P5214-24	231	Nonsterile - 10.4 cm total length - 1.5 mL capacity - 1 mL bulb draw	400/pk, 8 pk/cs
P5214-231	231-15	Sterile - 10.4 cm total length - 1.5 mL capacity - 1 mL bulb draw - individually-wrapped	400/pk, 8 pk/cs
<b>Extended fine tip, large bulb</b>			
P5214-25	233	Nonsterile - 15.3 cm total length - 5 mL capacity - 3.3 mL bulb draw	250/pk, 8 pk/cs
P5214-234	233-205	Sterile - 15.3 cm total length - 5 mL capacity - 3.3 mL bulb draw	500/pk, 8 pk/cs
<b>Fine tip, standard</b>			
P5214-13-1	232	Nonsterile - 14.7 cm total length - 5.8 mL capacity - 3.3 mL bulb draw	500/pk, 10 pk/cs
P5214-28	232-205	Sterile - 14.7 cm total length - 5.8 mL capacity - 3.3 mL bulb draw	500/pk, 8 pk/cs

### Thermo Scientific™ Samco™ General-Purpose Transfer Pipettes

THERMO SCIENTIFIC

Cat. No.	Mfr. No.	Description	Qty.
<b>Standard pipettes</b>			
P5214-2841	202	Sterile - 15.6 cm total length - 7.7 mL capacity - 3.2 mL bulb draw	500/pk, 10 pk/cs
P5214-10S1	202-15	Sterile - 15.6 cm total length - 7.7 mL capacity - 3.2 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
P5214-110	202-10S	Sterile - 15.6 cm total length - 7.7 mL capacity - 3.2 mL bulb draw	10/bg, 50 bg/pk, 8 pk/cs
P5214-22S	202-20S	Sterile - 15.6 cm total length - 7.7 mL capacity - 3.2 mL bulb draw	20/bg, 25 bg/pk, 8 pk/cs
<b>Standard pipettes with large bulb</b>			
P5214-21	204	Nonsterile - 15.1 cm total length - 8 mL capacity - 4.6 mL bulb draw	400/pk, 10 pk/cs
P5214-210	204-1S	Sterile - 15.1 cm total length - 8 mL capacity - 4.6 mL bulb draw - individually-wrapped	400/pk, 8 pk/cs
<b>3 in. pipettes</b>			
P5214-23	273	Nonsterile - 8.7 cm total length - 1.7 mL capacity - 0.9 mL bulb draw	500/pk, 8 pk/cs
<b>5 in. B/B-PET pipettes (blood bank)</b>			
P5214-5B-1	335-11	Nonsterile - 12.9 cm total length - 4 mL capacity - 1.9 mL bulb draw	400/pk, 10 pk/cs
P5214-336	335-20S	Sterile - 12.9 cm total length - 4 mL capacity - 1.9 mL bulb draw	25/bg, 500/pk, 8 pk/cs
<b>6 in. B/B-PET pipettes (blood bank)</b>			
P5214-30-1	336	Nonsterile - 15.4 cm total length - 5 mL capacity - 1.9 mL bulb draw	500/pk, 10 pk/cs
P5214-6	336-1S	Sterile - 15.4 cm total length - 5 mL capacity - 1.9 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
P5214-610	336-10S	Sterile - 15.4 cm total length - 5 mL capacity - 1.9 mL bulb draw	50/bg, 500/pk, 8 pk/cs

### Thermo Scientific™ Samco™ Graduated Transfer Pipettes

THERMO SCIENTIFIC - These graduated pipettes are appropriate for more accurate volume measurements. A broad selection of stem sizes allows you to sample from a large range of tubes and containers. Their accuracy is approximately +10%.

Cat. No.	Mfr. No.	Description	Qty.
<b>Graduated to 1 mL, small bulb</b>			
P5214-11-1	212	Nonsterile - 14 cm total length - 3.9 mL capacity - 2.2 mL bulb draw	500/pk, 10 pk/cs
P5214-212	212-1S	Sterile - 14 cm total length - 3.9 mL capacity - 2.2 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
<b>Graduated to 1 mL, large bulb</b>			
P5214-15-1	222-1S	Sterile - 15.5 cm total length - 5.8 mL capacity - 3.4 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
P5214-20S1	222-20S	Sterile - 15.5 cm total length - 5.8 mL capacity - 3.4 mL bulb draw	500/pk, 8 pk/cs
<b>Graduated to 3 mL, large bulb</b>			
P5214-33-1	225	Nonsterile - 15.5 cm total length - 7.5 mL capacity - 3.2 mL bulb draw	500/pk, 10 pk/cs
P5214-22S	225-1S	Sterile - 15.5 cm total length - 7.5 mL capacity - 3.2 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
P5214-226	225-20S	Sterile - 15.5 cm total length - 7.5 mL capacity - 3.2 mL bulb draw	20/bg, 25 bg/pk, 8 pk/cs
<b>Graduated to 2 mL (blood bank)</b>			
P5214-18-1	274	Nonsterile - 15.2 cm total length - 4.8 mL capacity - 1.8 mL bulb draw	500/pk, 10 pk/cs
P5214-276	274-1S	Sterile - 15.2 cm total length - 4.8 mL capacity - 1.8 mL bulb draw - individually-wrapped	500/pk, 8 pk/cs
P5214-27S	274-20S	Sterile - 15.2 cm total length - 4.8 mL capacity - 1.8 mL bulb draw	500/pk, 8 pk/cs
<b>Graduated to 0.3 mL (pediatric)</b>			
P5214-19A	282	Nonsterile - 11.6 cm total length - 1.5 mL capacity - 0.8 mL bulb draw	500/pk, 8 pk/cs

# Molecular Diagnostics



## BD Affirm™ VPIII Microbial Identification Test Kit

BD DIAGNOSTICS - Use this direct DNA probe test with BD MicroProbe™ Processor 4450100 for the differential detection of *Candida* species, *Gardnerella vaginalis* and *Trichomonas vaginalis* (causative agents for vaginitis) from a single vaginal sample. The test features an easy-to-read, visible color reaction that is more accurate than microscopic methods. A visible blue color reaction on the organism-specific bead embedded in the probe analysis card indicates a positive result. Each card contains three vaginitis organism test beads plus positive and negative control beads to help ensure test quality. Results are available in 45 minutes and automated test procedure requires less than 2 minutes hands-on time.

Kit includes probe analysis cards, reagent cassettes, substrate solution, lysis solution, buffer solution, filter tips, sample collection caps, sample collection tubes and individually-wrapped prescored sterile swabs and is sufficient for 24 patient tests. Additional sample collection swabs and sample collection sets are available separately. Each sample collection set includes an individually-wrapped, prescored sterile swab, sample collection tube, sample collection cap, resealable sample transport bag and an instruction sheet.

Cat. No.	Mfr. No.	Description	Qty.
4406252	446252	Affirm™ VPIII test kit	1/ea
446257	446257	Affirm™ VPIII microbial identification test	1/ea
442590A	446250	Sample collection set	24/ea

## BD Affirm™ VPIII Ambient Temperature Transport System

BD DIAGNOSTICS - Use this system for the collection, transport and preservation of vaginal specimens to be tested with BD Affirm™ VPIII Microbial Identification Test Kit 4406252. The system was designed to preserve specimens for up to 72 hours and should be used for those specimens where transport times will exceed 1 hour at ambient temperature or 4 hours at refrigerated temperatures.

Each system comes in a plastic pouch and contains enough material for the collection and transport of one specimen. It includes an individually-wrapped, prescored sterile swab, sample collection tube, sample collection cap and reagent dropper. Each box of transport systems also contains 240 patient specimen labels.

Cat. No.	Mfr. No.	Description	Qty.
446255A	446255	BD Affirm™ VPIII Ambient Temperature Transport System	100/bx



## BD MicroProbe™ Processor

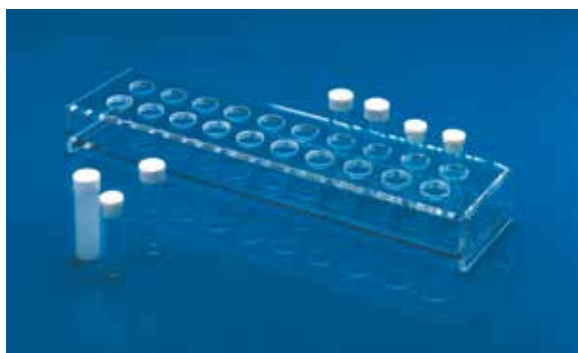
BD DIAGNOSTICS - Use this processor with BD Affirm™ VPIII Microbial Identification Test Kit 4406252 for the differential detection and identification of the causative agents for bacterial vaginosis/vaginitis: *Candida* species, *Gardnerella vaginalis* and *Trichomonas vaginalis*. Total time for results is less than 45 minutes with less than 2 minutes hands-on time. Simple automated procedure can be performed with minimal training.

Cat. No.	Mfr. No.	Description	Qty.
4450100	250100	BD MicroProbe™ Processor - 120 V	1/ea



## We are committed.

Our mission is to help you deliver the best possible care. We give you the tools to keep your lab running at its optimal level, so you can focus on what matters most—your patients.



### Mini LSC Vial Rack and LSC Column Rack

**CARDINAL HEALTH** - This rack was designed to carry and store twenty 7 mL mini LSC vials. It accommodates flat-bottom glass or plastic containers up to 8 mm in diameter and at least 50 mm high for easy handling. S1389-14 column rack holds 20 chromatographic columns at the proper height to elute into 20 mL LSC vials (column rack not shown).

Cat. No.	Description	Dimensions (H x W x D)	Qty.
<b>S1389-64</b>	Mini LSC vial rack	1½ x 12¾ x 3 in.	1/ea
<b>S1389-14</b>	Column rack for LSC	4 x 13½ x 3¼ in.	1/ea



### Scienceware® Poxygrid® Test Tube Racks

**BEL-ART** - Tough, chemical- and corrosion-resistant, these steel wire racks are coated with heat-cured epoxy. They have square holes, three decks, slotted mesh bottoms and reinforced edges. Racks withstand temperatures from -223°C to +121°C and can be autoclaved. Racks are color-coded—use yellow for radioactive warning and blue for general use.

Cat. No.	Mfr. No.	Description	Qty.
<b>Racks with 72 openings (6 rows x 12 positions)</b>			
<b>F187570002</b>	187570002	Yellow, 13 to 16 mm tubes	1/ea
<b>F187570001</b>	187570001	Blue, 13 to 16 mm tubes	1/ea
<b>Racks with 108 openings (9 rows x 12 positions)</b>			
<b>F187530001</b>	187530001	Blue, 10 to 13 mm tubes	1/ea
<b>F187590001</b>	187590001	Blue, 13 to 16 mm tubes	1/ea



### Scienceware® Radioimmunoassay Tube Racks

**BEL-ART** - Use these racks as a practical way to pipette and store a large number of samples. They are ideal for use in clinical laboratories and provide an easy way to keep track of the last tube filled. Racks are steam autoclavable at 121°C.

Cat. No.	Mfr. No.	Description	Qty.
<b>S9262-1A</b>	188700000	216 openings, 10 to 13 mm tubes	6/cs
<b>S9262-2A</b>	188710000	120 openings, 13 to 16 mm tubes	6/cs



### Thermo Scientific Nalgene Unwire Half Racks

**THERMO SCIENTIFIC** - Nalgene Unwire autoclavable racks provide half the size but all the features of the full-size Unwire™ test tube racks. Racks have no vinyl or epoxy coatings to chip or scratch so there is no corrosion. They are made with ResMer™ manufacturing technology that helps to retain rack color and performance in harsh environments. These racks have excellent thermal properties for both autoclaving and freezing. Each rack consists of a one-piece, three-tier design.

#### Specifications:

No. openings ..... 36  
 Rows x positions ..... 6 x 6 in.  
 Dimensions (W x H x D) ..... 5 x 5 x 2¾ in.

Cat. No.	Mfr. No.	Description	Qty.
<b>S9248-116W</b>	5972-0016	White	8/cs
<b>S9248-116B</b>	5972-0316	Blue	8/cs
<b>S9248-116G</b>	5972-0416	Green	8/cs
<b>S9248-116R</b>	5972-0516	Red	8/cs



# Racks

## Tube Racks



### Thermo Scientific Nalgene Unwire Polypropylene Test Tube Racks

THERMO SCIENTIFIC - Nalgene Unwire racks are stackable, color-coded and have no vinyl or epoxy coating that will chip or scratch. This polypropylene variety is not autoclavable. They will not float in water baths. Each rack is molded in one piece—no joints, welds or hinges to break. The racks contain no slots, slot tabs, edge tabs or holes to harbor contamination. The racks have no side posts to restrict visibility of tubes. The racks hold 72–16 mm (9¾ x 5 x 2¾ in.) tubes in a 6 x 12 array.

Cat. No.	Mfr. No.	Description	Qty.
<b>S9248-316W</b>	5976-0016	White	8/cs
<b>S9248-316B</b>	5976-0316	Blue	8/cs
<b>S9248-316G</b>	5976-0416	Green	8/cs
<b>S9248-316R</b>	5976-0516	Red	8/cs

If you don't see what you are looking for... contact us.

If you don't see the product you are looking for, just pick up the phone and ask your sales or customer service representative to assist you. Visit our website at [cardinalhealth.com](http://cardinalhealth.com) for more information.

**Customer Service: 800.964.5227**

### Thermo Scientific Nalgene Unwire Test Tube Racks

THERMO SCIENTIFIC - These economical plastic racks are durable and autoclavable and can withstand most laboratory chemicals. They have no coating that can chip, peel or permit corrosion. Racks are made with ResMer™ manufacturing technology that helps to retain rack color and performance in harsh lab environments. The smooth finish has no welds to break or sharp edges to cut or scrape fingers. Open construction helps eliminate hidden places for contaminants to lodge. The one-piece, three-tier design permits easy viewing of tube contents plus convenient insertion and removal of tubes. Each rack securely holds a full load of filled test tubes or centrifuge tubes. 72 small-diameter tubes can be held at once. The racks will not float in a water bath. These racks withstand temperatures up to 121°C and will not become brittle in freezing conditions. Large end plates accept easy-to-read labels. Molded in five bright, permanent colors for visual identification. Racks of same size stack for compact storage. ResMer™ manufacturing technology.



#### Specifications:

##### For tubes 13 mm

No. openings ..... 72  
 Rows x positions ..... 6 x 12  
 Dimensions (W x H x D) ..... 7¾ x 4 x 2¼ in.

##### For tubes 16 mm

No. openings ..... 72  
 Rows x positions ..... 6 x 12  
 Dimensions (W x H x D) ..... 9¾ x 5 x 2¾ in.

Cat. No.	Mfr. No.	Description	Qty.
<b>For 13 mm tubes</b>			
<b>S9248-13B</b>	5970-0313	Blue	8/cs
<b>S9248-13G</b>	5970-0413	Green	8/cs
<b>S9248-13O</b>	5970-0113	Orange	8/cs
<b>S9248-13R</b>	5970-0513	Red	8/cs
<b>S9248-13W</b>	5970-0013	White	8/cs
<b>S970-0213</b>	5970-0213	Yellow	8/cs
<b>For 16 mm tubes</b>			
<b>S9248-16B</b>	5970-0316	Blue	8/cs
<b>S9248-16G</b>	5970-0416	Green	8/cs
<b>S9248-16O</b>	5970-0116	Orange	8/cs
<b>S9248-16R</b>	5970-0516	Red	8/cs
<b>S9248-16W</b>	5970-0016	White	8/cs
<b>S9248-16Y</b>	5970-0216	Yellow	8/cs



## Chemistry Reagents

AZER SCIENTIFIC - Azer Scientific offers an economical solution to Chemistry ISE Reagents with market tested electrodes and solutions for many popular Chemistry analyzers.

Cat. No.	Mfr. No.	Description	Qty.
ES03-805	ES03-805	Cleaning C1/C2 Bayer RapidLab solution	6/cs
ES05-005	ES05-005	Cleaning solution A - 100 mL	50/pk
ES02-225	ES02-225	Hypochlorite radiometer solution - 100 mL	1/ea
ES03-802	ES03-802	RapidLab wash zero Bayer 840 reagent	12/cs
ES04-180	ES04-180	Reagent pack ISE 9180 Roche AYL	1/pk
ES03-227	ES03-227	Reference fill Bayer electrode solution	4/pk
ES15-181	ES15-181	Solution sodium conditioning Roche AV	1/ea
ES16-221	ES16-221	System cleaning Roche Hitachi solution - 490 mL	1/ea



## General Chemistry Reagents

JAS - These reagents are provided as stable liquids and are suitable for use on any open system chemistry analyzer, including the Alfa Wassermann ACE/Alera™ system.

Cat. No.	Mfr. No.	Description	Qty.
<b>ALT/GPT</b>			
JASALT2125	ALT2-125	340nm, 0 to 450 U/L - 2 x 125 mL	1/kt
<b>Calcium Arsenazo</b>			
JASCAA2-1L	CAA2-1L	650 nm, 15 mg/dL - 1 x 1 L	1/kt
<b>Glucose Hexokinase</b>			
JASGLU2125	GLU2-125	340 nm, 500 mg/dL - 2 x 125 mL	1/kt
<b>Total Protein</b>			
JASTPT2-1L	TPT2-1L	540 nm, 1 to 15 g/dL - 1 x 1 L	1/kt
<b>Uric Acid</b>			
JASURI2125	URI2-125	500 nm, 25 mg/dL - 2 x 125 mL	1/kt



## Specialty Reagents

JAS - These reagents are suitable for use on any open system chemistry analyzer, including the Alfa Wassermann ACE/Alera™ system. All reagents are provided as a stable liquid and should be stored at 2°C to 8°C.

Cat. No.	Mfr. No.	Description	Qty.
<b>CRP High Sensitivity-Wide Range</b>			
JASCRP3-30	CRP3-30	570 nm - 0.1 to 320 mg/L, 2 x 30 mL - R1, 2 x 30 mL - R2	1/kt
<b>Rheumatoid Factor</b>			
RHE2-20	RHE2-20	Less than 10 U/mL or 11 IU/mL, 2 x 20 mL - R1, 1 x 8 mL - R2	1/kt

## QuanTtest® Red Total Protein Assay System Kit

QUANTIMETRIX - QuanTtest® Red Total Protein Assay System Kit is used for the quantitative determination of protein in cerebrospinal fluid and urine for both manual and automated systems.\*

Reagents are stable until the expiration date when stored properly.

Standards and controls are stable until the expiration date when stored at 2°C–8°C.\*

Pyrogallol Red Molybdate dye binding method provides a simple, ready-to-use colorimetric method for total protein quantitation with greater linearity, using microliter samples of urine or cerebrospinal fluid (CSF) in manual or automated systems.\*

The kit consists of reagent, controls for both CSF and urine chemistry and four reagent standards: level 2 (25 mg/dL), level 3 (50 mg/dL), level 4 (100 mg/dL) and level 5 (200 mg/dL).

Reagent also sold separately.

\*Refer to the package insert of currently available lots for specific analyte, stability claims and instrument compatibility.

Cat. No.	Mfr. No.	Description	Qty.
2210-02	2210-02	QuanTtest® Red Total Protein Assay System	200/test
5210-12	5210-12	Pyrogallol Red Reagent - 250 mL	1/bx
3410-02	3410-02	Human Protein Standard - 4 level set - 30 mL	4/bx



# Reagents



## Albumin Reagent

THERMO SCIENTIFIC - Albumin is the most abundant protein in human plasma, representing 55% to 65% of the total protein. Albumin has a relatively small size that makes it a useful indicator of the integrity of glomerular and other membranes. Hyperalbumin is associated with dehydration while hypoalbuminemia is associated with many illnesses including, but not limited to, kidney disease, liver disease, tissue damage and inflammation and malnutrition.

- Intended for the in vitro quantitative determination of albumin in serum or plasma
- Reagent is suitable for manual use or on automated clinical chemistry analyzers
- Applications for a wide range of automated analyzers are available on request
- Utilizes the Bromocresol Green substrate

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-159</b>	TR36026	Albumin - Bromocresol Green - 2 x 250 mL	2/ea

## ALT/GPT Reagent

THERMO SCIENTIFIC - ALT is found primarily in the liver and kidneys. Increased levels of ALT are generally a result of liver disease associated with some degree of hepatic necrosis such as cirrhosis, carcinoma, viral or toxic hepatitis and obstructive jaundice. Slight to moderate elevations have been observed after administration of medications such as NSAIDs, antibiotics, antiepileptic drugs, statins or opiates.



- Intended for the in vitro quantitative determination of Alanine Aminotransferase in serum
- Reagent is suitable for manual use or on automated clinical chemistry analyzers
- Applications for a wide range of automated analyzers are available on request

### Specifications:

Linearity ..... 0 - 450 U/L (TR71121)  
Stability ..... 12 Stable Liquid (TR71121)

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-178</b>	TR71121	Infinity ALT/GPT - 2 x 125 mL	2/ea



## Ammonia Reagent

THERMO SCIENTIFIC - Excess ammonia exerts toxic effects on the central nervous system. Elevated levels of ammonia may be either due to inborn errors of metabolism or secondary to other conditions. Elevated ammonia may be observed in advanced liver disease caused by Reye's syndrome, viral hepatitis or cirrhosis.

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-170</b>	TR60101	Ammonia - 2 x 28 mL	2/ea



## AST/GOT Reagent

THERMO SCIENTIFIC - AST is widely distributed with high concentrations in the heart, liver, skeletal muscle and kidney. Damage or disease to any of these tissues such as myocardial infarction, viral hepatitis, liver necrosis, cirrhosis and muscular dystrophy may result in raised serum levels of AST.

- Intended for the in vitro quantitative determination of aspartate aminotransferase in serum or plasma
- Reagent is suitable for manual use or on automated clinical chemistry analyzers
- Applications for a wide range of automated analyzers are available on request

### Specifications:

Linearity ..... 0 - 450 U/L  
Stability ..... Stable Liquid (TR70121)

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-175</b>	TR70121	Infinity AST/GOT - 2 x 125 mL	2/ea



## Carbon Dioxide Reagent

THERMO SCIENTIFIC - Approximately 90% of total carbon dioxide present in serum is in the form of bicarbonate. The measurement of bicarbonate, usually in conjunction with tests such as glucose, urea, sodium, potassium and chloride is useful in the assessment of disturbances of acid base balance resulting from metabolic or respiratory causes.

### Specifications:

Liquid ..... Yes  
Stability ..... Stable liquid

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-129</b>	TR28321	Infinity Carbon Dioxide - 2 x 125 mL	2/ea



## Clinical Chemistry Reagent Sets

THERMO SCIENTIFIC - Technical support is available. Storage 2°C to 8°C. Bottles feature screw-cap closure for easy opening.

**B5355-43:** Thermo Scientific Total Bilirubin Reagent offers at least 21 days working reagent stability minimizing reagent wastage.

**B5358-84:** Thermo Scientific Cholesterol Reagents are intended for the in vitro quantitative determination of cholesterol in serum.

**B5345-31:** Thermo Scientific Lithium Reagent is a liquid stable assay offering 12 months stability.

### Specifications:

Wavelength 500 nm..... **B5358-84**  
Wavelength 510 nm..... **B5345-31**  
Wavelength 540 nm..... **B5355-43**

Cat. No.	Mfr. No.	Description	Qty.
<b>Bilirubin (total), plus</b>			
<b>B5355-43</b>	1245-250	Total Bilirubin (Diazonium Salt) - 2 x 125 mL	2/ea
<b>Cholesterol</b>			
<b>B5358-84</b>	TR13421	Infinity Total Cholesterol - 2 x 125 mL	2/ea
<b>Lithium</b>			
<b>B5345-31</b>	TR66056	Infinity Lithium - 2 x 28 mL	2/kt

## Creatinine Reagent

THERMO SCIENTIFIC - Creatinine is a non-protein nitrogenous metabolite that is cleared from the body by the kidney and is used to assess renal function. Elevated levels are observed in acute nephritis, renal failure, urinary tract obstruction, shock, dehydration, congestive heart failure and diabetes.

- Intended for the in vitro quantitative determination of creatinine in human serum, plasma or urine
- Applications are available for most automated chemistry analyzers

### Specifications:

CE Marked ..... Yes  
Linearity ..... 0–20 mg/dL  
Method ..... Rate

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-155</b>	TR35121	Infinity Creatinine 2 x 125 mL	2/ea



## Direct Bilirubin Reagent

THERMO SCIENTIFIC - In the liver, bilirubin is conjugated with glucuronic acid to form conjugated bilirubin. Increased conjugated or direct bilirubin generally results from acute hepatitis or when any portion of the biliary tree becomes blocked or abnormally permeable.

- Intended for the in vitro quantitative determination of direct bilirubin in serum
- Reagent is suitable for manual use or on automated clinical chemistry analyzers
- Applications for a wide range of automated analyzers are available on request

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-147</b>	TR33321	Bilirubin 2 x 125 mL	2/ea

# Reagents



## Total Protein Reagent

THERMO SCIENTIFIC - Serum total protein consists primarily of albumin and globulin. Measurements are useful in the diagnosis and treatment of a variety of diseases involving the liver, kidney, bone marrow and other metabolic and nutritional disorders. Increased levels are observed with multiple myeloma, chronic hepatitis and cirrhosis, Addison's disease, diabetic acidosis, chronic inflammation and dehydration. Decreased levels are observed in chronic alcoholism, heart failure, nephrotic syndrome, malabsorption or starvation, Crohn's disease and ulcerative colitis.

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-151</b>	TR34026	Total Protein 2 x 250 mL	2/ea



## Urea Reagent

THERMO SCIENTIFIC - Urea is the major end product of protein nitrogen metabolism. Elevated levels can occur with dietary changes, diseases that impair kidney function, liver disease, congestive heart failure, diabetes and infection.

- Offers a 3-month reconstituted stability and various kit sizes to minimize reagent wastage
- Intended for the in vitro quantitative determination of urea in serum, plasma or urine
- Applications for a wide range of automated analyzers are available on request

Cat. No.	Mfr. No.	Description	Qty.
<b>B5358-79</b>	TR12421	Infinity Urea 2 x 125 mL	2/ea



## Expertise

**Cardinal Health is an experienced, dependable partner that knows the lab business and solves problems.**

- 60 years of experience serving laboratories.
- Dependable service, with tenured representatives who are committed to understanding and attending to customers' needs.
- Sales representatives who help educate lab managers about their options with comparative information about different manufacturers and products.
- Specialty customer service team that manages high-volume, high-value and perishable materials.
- Extensive supply chain and logistics expertise.



# Temperature Monitoring

## Hygrometers - Analog/Digital



### Analog Dial Thermometer/Hygrometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Product size: 4½ in. diameter, 112 x 40 x 120 mm
- "Super-ex-Sensor" for particularly exact and fast measurement

#### Specifications:

Temperature range.....-30°C to 50°C

Temperature accuracy.....±1°C, -20° to 40°C

Humidity range.....10% to 90% RH

Humidity accuracy.....±3%, 35% to 70% RH

Cat. No.	Description	Qty.
CH9506-16	Analog dial thermometer/hygrometer	1/ea



### Dial Barometer Thermometer/Hygrometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Min/max with memory recall

#### Specifications:

Temperature range.....-10°C to 55°C

Humidity range.....20% to 100% RH

Cat. No.	Description	Qty.
CH2504-1	Dial barometer thermometer/hygrometer	1/ea

### Digital 2-Point Thermometer/Hygrometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Internal and external temperature with humidity LCD display
- External probe with 9 ft. sensor probe wire
- °C/°F switchable
- Flip-out stand or hang
- Low battery indicator
- AAA 1.5 V battery included



#### Specifications:

Temperature range.....Internal 0°C to 50°C (32°F to 122°F)

External -40°C to 70°C (-40°F to 158°F)

Temperature accuracy.....±1°C, 0°C to 40°C (±1.8°F, 32°F to 104°F)

Humidity range.....20% to 99% RH

Humidity accuracy.....±5%, 30% to 80% RH rest ±7%

Cat. No.	Description	Qty.
CH9506-1	Digital 2-point thermometer/hygrometer	1/ea
CH9506-13	Digital 2-point thermometer/hygrometer with outside probe	1/ea

### Double - Triple Digit Display Thermometer/Hygrometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Double - triple digits display
- Current, min/max memory of temperature and humidity
- Min/max with daily auto or manual reset
- °C/°F switchable
- Flip-out stand or hang
- Low battery indicator
- AAA 1.5 V battery included



#### Specifications:

Temperature range.....-10°C to 70°C (14°F to 158°F)

Temperature accuracy.....±1°C (±1.8°F)

Humidity range.....20% to 99% RH

Humidity accuracy.....±4%, 35% to 75% RH rest 5%

Cat. No.	Description	Qty.
CH9506-3	Digital 2-point thermometer/hygrometer with outside probe	1/ea

# Temperature Monitoring

## Hygrometers - Digital

### Large Digit Thermometer/Hygrometer

#### CARDINAL HEALTH

- NIST Compliant® with certificate
- Min/max memory of temperature and humidity
- °C/°F switchable
- Flip-out stand
- Low battery indicator
- Battery included



#### Specifications:

Temperature range.....-10°C to 60°C (-14°F to 140°F)

Temperature accuracy.....±1°C (±1.8°F)

Humidity range.....+10% to 99% RH

Humidity accuracy.....±5%, 25% to 75% RH  
at 0°C to 50°C (32°F to 122°F)

Resolution.....0.1° temperature and relative humidity

Cat. No.	Description	Qty.
CH9506-11	Large digit thermometer/hygrometer	1/ea

### Min/Max Thermometer/Hygrometer

#### CARDINAL HEALTH

- NIST Compliant® with certificate
- Time/temperature/humidity/week display with month and day
- Min/max memory of temperature and humidity
- °C/°F switchable
- Product size: 102 x 21 x 110 mm
- AAA 1.5 V battery included



#### Specifications:

Temperature range.....-10°C to 60°C (+14°F to +140°F)

Temperature accuracy... ±1°C, 10°C to 50°C (±1.8°F, 14°F to 122°F)

Humidity range..... 10% to 99% RH

Humidity accuracy..... ±5%, 25% to 75% RH at 0°C to °C (32°F to 122°F)

Cat. No.	Description	Qty.
CH9506-15	Min/max thermometer/hygrometer	1/ea

### Large Digit Thermometer/Hygrometer with Alarm Clock

#### CARDINAL HEALTH

- NIST Compliant® with certificate
- 12/24 hour format alarm clock
- Display size 79 x 66 mm
- Min/max memory of temperature and humidity
- °C/°F switchable
- 10 second display refresh
- Flip-out stand or hanging
- Product size: 98 x 110 x 21 mm (W x H x D)
- AAA 1.5 V battery included



#### Specifications:

Temperature range.....Internal 0°C to 50°C (32°F to 122°F)  
External -50°C to 70°C (-58°F to 158°F)

Temperature accuracy.....±1°C (±1.8°F)

Humidity range.....20% to 100% RH

Humidity accuracy.....±5% RH

Cat. No.	Description	Qty.
CH2972	Large digit thermometer/hygrometer with alarm clock	1/ea

### Min/Max Thermometer/Hygrometer with Internal-External Temperature

#### CARDINAL HEALTH

- NIST Compliant® with certificate
- Time/temperature/humidity/week display with month and day
- Two modes of time display: 12/24 hour
- Everyday alarm function
- Min/max memory of temperature and humidity
- °C/°F switchable
- Product size: 110 x 58 x 18 mm
- AAA 1.5 V battery included



#### Specifications:

Temperature range:..... Internal -10°C to +50°C (+14°F to +122°F)  
External -50°C to +70°C (-58°F to +158°F)

Humidity range..... 10% to 99% RH

Cat. No.	Description	Qty.
CH9506-2	Min/max thermometer/hygrometer with internal-external temperature	1/ea

### Multi-Remote Environment Monitoring Station

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- LCD displays temperature and humidity with comfort level
- Local/remote temperature min/max memory with time stamp
- °C/°F switchable
- Relative Humidity (RH) percent with min/max memory
- Wireless monitor up to three remote transmitters
- Relative atmospheric pressure with adjustable reference value
- Graphic display of relative air pressure for last 12 hours
- Weather forecasting with weather tendency indicator
- Radio controlled clock, date, time zone
- 12/24 hour time display
- Time zone option ±12 hours
- Weekday and day calendar display
- Two AA 1.5 V batteries for each base and remote



#### Specifications:

Transmission..... 868 Mhz - max distance 300 ft. (91.44 m)

#### Base Station:

Temperature range... -10°C to 60°C (14°F to 140°F) 0.1°C (0.2°F) resolution

Humidity range..... 1% to 99% RH with 1% resolution

#### Remote Transmitter:

Temperature range... -40°C to 60°C (-40°F to 140°F) 0.1°C (0.2°F) resolution

Cat. No.	Description	Qty.
CH4195	Multi-remote environment monitoring station	1/ea

### Pocket Thermometer/Hygrometer

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Min/max memory of temperature and humidity
- °C/°F switchable
- Rubber coated
- LCD display:  
2¼ x ½ in.
- Dimensions: 6½ x 1½ in.
- Low battery indicator
- Plastic storage case and battery included



#### Specifications:

Temperature range..... 0°C to 50°C (-32°F to 120°F)

Temperature accuracy..... ±0.5° celsius and fahrenheit

Humidity range..... +20% to 100% RH

Humidity accuracy..... ±4% mid range ±6% elsewhere

Resolution..... 0.1 temperature and relative humidity

Cat. No.	Description	Qty.
CH9509	Pocket thermometer/hygrometer	1/ea

### Precision Bench Thermometer/Hygrometer

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Room temperature
- Indoor relative air humidity
- Minimum/maximum values
- Dew point indication and wet bulb temperatures
- Acoustic and optical alarm function for all parameters



#### Specifications:

Temperature range..... -40°C to 70°C

Temperature accuracy..... ±0.5°C, 0°C to 60°C, otherwise ±1°C

Humidity range..... 1% to 99% RH

Humidity accuracy..... ±3%, 35% to 75% RH, otherwise ±5%

Cat. No.	Description	Qty.
CH4410	Precision bench thermometer/hygrometer	1/ea

### Thermometer/Hygrometer with Remote Sensor

CARDINAL HEALTH

- **NIST Compliant® with certificate**
- LCD displays temperature and humidity with comfort level
- Local/remote temperature min/max memory with time stamp
- °C/°F switchable
- Relative Humidity (RH) percent with min/max memory
- Wireless monitor up to three remote transmitters
- Radio controlled time with manual setting options
- 12/24 hour time display
- Time zone option ±12 hours
- Weekday and day calendar display
- Wall mounting or table standing base station
- Optional external probe - remote transmitter
- Dimensions: 81 x 32 x 143.5 mm (base), 41 x 19 x 128 mm (remote)
- Low battery indicator (base)
- Two AA 1.5 V batteries for each base and remote



#### Specifications:

Transmission..... 868 Mhz - max distance 300 ft. (91.44 m)

#### Base Station:

Temperature range... -10°C to 60°C (14°F to 140°F) 0.1°C (0.2°F) Resolution

Humidity range..... 1% to 99% RH with 1% resolution

#### Remote Transmitter:

Temperature range... -40°C to 60°C (-40°F to 140°F) 0.1°C (0.2°F) Resolution

Cat. No.	Description	Qty.
CH9506-14	Thermometer/hygrometer w/remote sensor	1/ea

# Temperature Monitoring

## Tachometers

### Digital Contact/Photo Tachometer - Touch

**CARDINAL HEALTH** - The Contact/Photo Tachometer measures the rpm safely and accurately without attachment to the object. The five-digit LCD display is easily read.

A **NIST Compliant® certificate** is provided from a ISO 17025 ilac accredited laboratory.

- Memory: last value, minimum and maximum values
- Test range select: automatic
- Included with unit: carry case, reflective tape, rpm adapter cone and rpm adapter funnel
- Four AA 1.5 V batteries included

#### Specifications:

Range ..... Contact: 2.5 to 19,999 rpm,  
Photo: 2.5 to 99,999 rpm  
Resolution .....  $\pm 0.1$  rpm (2.5 to 999.9 rpm)  
 $\pm 1$  rpm (above 1000 rpm)  
Accuracy .....  $\pm 0.05\% + 1$  rpm  
Sample Time ..... 1 second  
Detecting Distance ..... 50 to 250 mm (2 to 10 in.)

Cat. No.	Description	Qty.
CH3316-7	Digital contact/photo tachometer - touch	1/ea



### Digital Photo (Laser) Tachometer - Touchless

**CARDINAL HEALTH** - Laser type/touchless operation, although complex and advanced, it is easy to use and operate. A five-digit LCD display shows the readings. The tachometer uses a precision quartz crystal for an accurate time base.

A **NIST Compliant® certificate** is provided from a ISO 17025 ilac accredited laboratory. The certificate shows traceability to a NIST standard.

- Memory: last value, minimum and maximum values
- Test range select: automatic
- Included with unit: carry case and reflective tape
- Four AA 1.5 V batteries included

#### Specifications:

Range ..... 2.3 to 9,999 rpm  
Resolution .....  $\pm 0.1$  rpm (2.5 to 999.9 rpm)  
 $\pm 1$  rpm (above 1000 rpm)  
Accuracy .....  $\pm 0.05\% + 1$  rpm  
Sample Time ..... 1 second  
Detecting Distance ..... 50 to 250 mm (2 to 10 in.)

Cat. No.	Description	Qty.
CH3316-8	Digital photo (laser) tachometer - touchless	1/ea



### Multifunctional Photo, Contact and Surface Tachometer

**CARDINAL HEALTH** - This instrument combines the measurements in rpm of many lab instruments such as centrifuges, motors, and stirrers. The measurement is made in 1 to 3 seconds and the memory feature allows recalling the minimum, maximum and the last reading. One end of the tachometer provides contact readings with a rotating spindle; the other end makes touchless readings with a light beam utilizing self adhesive tabs. The ACCPTC900 utilizes a precision quartz crystal for an accurate time base.

A **NIST Compliant® certificate** is provided from a ISO 17025 ilac accredited laboratory. The certificate shows traceability to a NIST standard.

- Memory: last value, minimum and maximum values
- Test range select: automatic
- Included with unit: carry case, reflective tape, rpm adapter cone, rpm adapter funnel and surface speed test wheel
- Four AA 1.5 V batteries included

#### Specifications:

Contact Range ..... 2.5 to 19,999 rpm  
Photo Range ..... 2.5 to 99,999 rpm  
Surface Range ..... 0.05 to 1,999.9 meter/min. and 0.2 to 6,560 ft./min.  
Resolution ..... 0.1 rpm (2.5 to 999.9 rpm) 1 rpm above  
Accuracy ..... Tach:  $0.05\% + 1$  rpm, Surface speed:  $0.05\% + 0.03$  meter/min  
Sample Time ..... 1 second  
Detecting Distance ..... 50 to 250 mm (2 to 10 in.)

Cat. No.	Description	Qty.
CH3316-6	Multifunctional photo, contact and surface tachometer	1/ea





# Temperature Monitoring

## Thermometers - Bottle

### Accu-Safe Enclosed Chamber Bottle Thermometers

**CARDINAL HEALTH** - ACCU-SAFE thermometers are environmentally friendly spirit filled non-mercury thermometers sealed in a PTEF jacket that contains liquid and glass if breakage occurs and are housed in unbreakable plastic bottles filled with a non-toxic Bio-Safe medium. Economical, precise and reliable means of measuring critical temperatures in blood bank refrigerators, ultra-low freezers, freezers, refrigerators, incubators, ambient/room, block heaters and ovens. Each bottle thermometer have their own unique serial number and are supplied with a **NIST traceable certificate**.

- Thermometers in 0.5°C and 1°C divisions
- Thermometers are fluoropolymer coated for protection
- Unbreakable bottle filled with Bio-Safe glycol/water bottle medium
- Space saving magnets for bottles



Cat. No.	Description	Range	Divisions	Bottle Media
<b>T8401-48</b>	Block heater bottle thermometer	18°C to 60°C	0.5°C	mineral oil - 1 mL
<b>T8401-85</b>	Block heater bottle thermometer	50°C to 110°C	0.5°C	mineral oil - 1 mL
<b>CH01015</b>	Freezer bottle thermometer	-30°C to 0°C	0.5°C	glycol/water - 30 mL
<b>T8401-4</b>	Freezer bottle thermometer	-30°C to 0°C	0.5°C	glycol/water - 30 mL
<b>T8401-7</b>	Freezer-ultra-low, bottle thermometer	-90°C to 20°C	1°C	sand - 60 mL
<b>T8401-3</b>	Incubator bottle thermometer	18°C to 50°C	0.5°C	glycol/water - 30 mL
<b>T8401-1</b>	Refrigerator bottle thermometer	-5°C to 15°C	0.5°C	glycol/water - 30 mL
<b>T8401-6</b>	Refrigerator-blood bank bottle thermometer	-5°C to 20°C	0.5°C	glycol/water - 250 mL

### Cooler Thermometer

**CARDINAL HEALTH**

- N.I.S.T. traceable

Cat. No.	Description	Range	Bottle Media
<b>CHER-0040</b>	Cooler thermometer	-10°C to 20°C	50 mL vial with liquid



### Therm-Chex Environmental Chamber Thermometer Kits

**CARDINAL HEALTH** - Therm-Chex thermometers are completely sealed in a fluoropolymer PTEF jacket and then enclosed with the buffered media bottle in a plastic sleeve to contain fluids should breakage occur, preventing product contamination. Therm-Chex thermometers can be strategically placed anywhere within fridge or freezer wall using supplied magnetic pair.

- **NIST Compliant® with certificate**
- Thermometers in 0.5°C and 1°C divisions
- Thermometer housed in protective sleeve
- Fluoropolymer coated thermometer for safety
- Red and blue spirit
- Bio-Safe glycol/water bottle medium
- Suspend or attach magnetically
- Monitor refrigerators, freezers, incubators



Cat. No.	Description	Range	Divisions	Bottle Media
<b>CH2401BLS</b>	Freezer blue spirit-filled thermometer	-30°C to 0°C	0.5°C	glycol/water - 5 mL
<b>CH240046</b>	Freezer red spirit-filled thermometer	-30°C to 0°C	0.5°C	glycol/water - 5 mL
<b>CH240045</b>	Freezer-ultra-low spirit-filled thermometer	-90°C to 20°C	1°C	glycol/water - 5 mL
<b>CH240052</b>	Refrigerator blue spirit-filled thermometer	-5°C to 15°C	0.5°C	glycol/water - 5 mL
<b>CH240043</b>	Refrigerator red spirit-filled thermometer	-5°C to 15°C	0.5°C	glycol/water - 5 mL
<b>CH240053</b>	Incubator blue spirit-filled thermometer	18°C to 50°C	0.5°C	glycol/water - 5 mL
<b>CH24035</b>	Incubator red spirit-filled thermometer	18°C to 50°C	0.5°C	glycol/water - 5 mL

# Temperature Monitoring

## Thermometers - Digital Bottle



### Dual Temp Digital Thermometers

**CARDINAL HEALTH** - Dual temp thermometers allow putting one probe in the freezer and another in the refrigerator (or measure two areas of a refrigerator). Audible and visual alarm feature provides alert when temperature rises above or falls below two set points. Alarm is programmable in 1° increments. Three foot micro-cable permits refrigerator or freezer doors to close without seal on it. Buffered bottle media models contain glycol/water a thermal dampening media housed in a 5 mL bottle, used to minimize temperature spikes caused when a instrument door is opened for a period of time and thereby preventing false alarms. Suction cup probes attach to refrigerator or freezer wall. Two AAA alkaline 1.5 V batteries included. Each thermometer is certified, serialized and traceable to NIST.

- **NIST Compliant® with certificate**
- Bio-Safe glycol/water probe medium
- Min/max temperature memory recall
- Visual and buzzer alarm
- °C/°F switchable
- Programmable alarm in 1° increments
- 3 ft. micro-cable probe
- Alarm duration indication
- Low battery indication
- Flip out desk stand
- Magnets and velcro for attachment

#### Specifications:

Resolution ..... 0.1°C/°F  
Accuracy ..... ±1°C  
Dimensions ..... 3½ x 1¾ x 1 in.

Cat. No.	Description	Qty.
CH2941-5	-40°C to 70°C range - glycol/water 5 mL	1/ea
CH2941-6	-40°F to 158°F range - glycol/water 5 mL	1/ea
CH8002CL	-40°C to 70°C (-40°F to 158°F) range - suction cup holders	1/ea



### Hi-Temp Digital Thermometer

**CARDINAL HEALTH** - Each thermometer is certified, serialized and traceable to NIST.

- **NIST Compliant® with certificate**
- Min/max temperature memory recall
- Temperature probe housed in plastic bottle filled with USP sand.
- Bottles and thermometers have double magnets for attachment
- °C/°F switchable
- Stainless steel probe has a 32 in. cable

#### Specifications:

Range ..... -50°C to 130°C  
Resolution ..... 0.1°C/°F  
Accuracy ..... ±0.5°C  
Dimensions ..... Display: 35 x 15 mm  
Thermometer: 95 x 65 x 18 mm

Cat. No.	Description	Qty.
CH240056	Thermometer - oven, incubator, water bath - 60 mL bottle with sand	1/ea

# Temperature Monitoring

## Thermometers - Digital Bottle



CH-4148



CH-4648

### Triple Display - Large Digit Alarm Digital Thermometer

**CARDINAL HEALTH** - The Triple Display Digital Thermometer simultaneously shows the current, minimum, and maximum temperatures and updates continuously. An audible alarm will sound when the temperature rises above or goes below the set temperatures. Temperature probe is housed in a plastic bottle filled with a Bio-Safe nontoxic, non-hazardous liquid medium. Reset buttons on front panel. Thermometers are supplied with dual magnets and velcro sets to allow attachment to walls or doors. AAA alkaline 1.5 V batteries included. Each thermometer is certified, serialized and traceable to NIST.

- **NIST Compliant® with certificate**

- Audible alarm
- Bio-Safe glycol/water probe medium
- Displays current, minimum and maximum temperatures
- °C/°F switchable
- 9 ft. micro-cable probe
- Flip out desk stand
- Wall mounting key hole
- Magnets and velcro for attachment

#### Specifications:

Range ..... -50°C to 70°C  
 Resolution ..... 0.1°C / °F  
 Display Accuracy ..... ±0.5°C / °F

Cat. No.	Description	Qty.
CH-4148	Thermometer with probe only	1/ea
CH-4648	Vaccine bottle - glycol/water 5 mL bottle	1/ea
CH-4548	Incubator - glycol/water 30 mL bottle	1/ea
CH2960-5	Refrigerator/Freezer - glycol/water 30 mL bottle	1/ea

### Triple Display - Time and Date Stamp Digital Alarm Thermometer

**CARDINAL HEALTH** - Temperature monitors for refrigerators, freezers and incubators. Simultaneously shows the current, minimum, and maximum temperatures and updates continuously. An audible and visual alarm will trigger when the temperatures goes above or below the set temperatures. The thermometer probe is housed in an unbreakable plastic vial filled with a Bio-Safe buffering media which maintains the thermometer reading while the refrigerator or freezer door is open. Thermometers are supplied with dual magnets and velcro sets to allow attachment to walls or doors. Two AAA alkaline 1.5 V batteries included. Each thermometer is certified, serialized and traceable to NIST.



CH2960-4

- **NIST Compliant® with certificate**

- Visual LED and audible beeping alarms
- Bio-Safe glycol/water probe medium
- Min/max temperature with time and date stamp readings in memory
- Low/high alarm limit setting
- °C/°F switchable
- Low battery indication
- 12/24 hour time display format
- Flip out desk stand
- Wall mounting key hole
- Magnets and velcro for attachment

#### Specifications:

Range ..... -50°C to 70°C  
 Display Resolution ..... 0.1°C  
 Display Accuracy ..... ±0.3°C  
 Display Reading Update ..... 10 Seconds  
 Alarm Setting Resolution ..... 0.1°C  
 Time Accuracy ..... ±1 Second Per Day  
 Working Temperature ..... 0 to 50°C  
 Dimensions ..... Display: 47 x 39 mm (W x H)  
 Product: 75 x 120 x 19 mm (W x H x D)

Cat. No.	Description	Qty.
CH2960-3	Thermometer - probe only no bottle	1/ea
CH2960-4	Thermometer - glycol/water 5 mL bottle	1/ea

# Temperature Monitoring

## Thermometers - Digital General Use



### Big See-Thru Glass Door Digital Thermometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Triple display current, minimum/maximum temperatures
- Weather resistant
- Manual reset

#### Specifications:

Range .....Fahrenheit model: -13°F to 158°F  
Celsius model: -25°C to 70°C

Cat. No.	Description	Qty.
CH2971-7	Fahrenheit see-thru glass door thermometer	1/ea
CH2971-8	Celsius see-thru glass door thermometer	1/ea

### Economy Refrigerator Thermometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- LCD viewing area: 20 x 30 mm
- Suction pad affixes to any flat surface

#### Specifications:

Range .....-20°C to 60°C  
Accuracy.....±1°C  
Dimensions.....43 x 85 mm

Cat. No.	Description	Qty.
CH2971-5	Refrigerator thermometer	1/ea



### Internal-External Min/Max Memory Digital Thermometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Tri-display for current, minimum and maximum temperatures
- Internal and external temperature measuring
- Programmable low and high alarm limit
- External probe with 3 meter cord length
- °C/°F switchable
- 10 second display update
- Low battery indication
- Magnets and velcro for attachment



#### Specifications:

Range .....Internal 0°C to 50°C (32°F to 122°F)  
External -50°C to 70°C (-58°F to 158°F)  
Resolution.....0.1° C/F  
Accuracy.....±1°C (1.8°F)

Cat. No.	Description	Qty.
CH2212-2	Celsius internal-external thermometer	1/ea
CH4120	Fahrenheit internal-external thermometer	1/ea

### Large Digit Internal-External Min/Max Digital Thermometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Large dual display
- Min/max temperature memory recall
- External sensor cable length 10 ft.
- °C/°F switchable
- Wall mounting or flip-out table stand
- AAA 1.5 V battery included



#### Specifications:

Range ..... Internal -10°C to 60°C (14°F to 140°F)  
External -50°C to 70°C (-58°F to 158°F)  
Resolution.....0.1° C/F  
Accuracy..... ±1°C, 0°C to 50°C (±1.8°F 32°F to 122°F)  
±2.0°C, -50°C to 0°C (±3.6°F -58°F to 32°F)

Cat. No.	Description	Qty.
CH4126	Large digit internal-external thermometer	1/ea



# Temperature Monitoring

## Thermometers - Digital General Use

### Low Temp Digital Thermometer

**CARDINAL HEALTH** - Thermometer accurately monitors temperatures in ultra-low freezers, water baths, incubators and refrigerators.

- **NIST Compliant® with certificate**
- Fast-response 100 ohm platinum probe
- Probe 0.16 x 3 in. long, overall length 5 in.
- Micro-cable permits freezer doors to close (9.6 ft. of cable)
- Triple purpose probe liquids -air/gas-frozen material
- Magnets and velcro for attachment
- 9 V battery and carrying case included



#### Specifications:

Range ..... -99.9°C to 199.9°C  
 Resolution ..... 0.1°C  
 Accuracy ..... ±2°C  
 Dimensions ..... 2.75 x 4.25 x 0.75 in.  
 Weight ..... 4.25 oz.

Cat. No.	Description	Qty.
CH2971-6	Low temp thermometer	1/ea

### Minimum-Maximum Alarm Digital Thermometer

**CARDINAL HEALTH**

- **NIST Compliant® with certificate**
- Triple display simultaneously shows temperature, alarm limit, timer/clock
- Programmable high temperature alarm limit
- Magnets for attachment
- Count down-up timer max 24 hours
- 12/24 hour format clock display
- Adjustable display angle
- °C/°F switchable
- Curved stainless steel probe 0.25 x 8.5 in. long.
- Two AAA 1.5 V batteries included



#### Specifications:

Range ..... 0°C to 300°C (32°F to 582°F)  
 Dimensions ..... LCD display: 1.5 x 2.0 in. - visible 9 ft. away  
 Product: 75 x 128 x 21 mm (W x H x D)

Cat. No.	Description	Qty.
CH2941-2	Minimum-maximum alarm thermometer	1/ea

### Mini Digital Thermometer

**CARDINAL HEALTH**

- **NIST Compliant® with certificate**
- 5 in. stainless steel probe with protective plastic cap
- One second normal temperature sensing time
- Min/max temperature memory recall
- One hour auto shut off
- °C/°F switchable
- Data hold/test function selectable
- Low battery indicator
- 1.5 V G13/A76 battery included



#### Specifications:

Range ..... -50°C to 150°C (-58°F to 302°F)  
 Resolution ..... 0.1°C -19.9°C to 199.9°C, otherwise 1°  
 Accuracy ..... ±1°C -30°C to 150°C (±1.8°F -22°F to 302°F)

Cat. No.	Description	Qty.
CH-4146	Mini digital thermometer	1/ea



### Monitoring/Control Thermometer

**CARDINAL HEALTH**

- **NIST Compliant® with certificate**
- Min/max temperature memory recall
- Programmable high/low buzzer and flashing icon alarm
- Dust and waterproof IP65
- Magnet sensor holder and bench stand
- °C/°F switchable
- Low battery indicator
- Probe and 3 meter cable
- CR2032 battery included

#### Specifications:

Range ..... -40°C to 70°C (-40°F to 158°F)  
 Resolution ..... 0.1°  
 Accuracy ..... ±0.5°C -25°C to 25°C otherwise ±1°C  
 Dimensions ..... .86 x 57 x 30 mm (W x H x D)

Cat. No.	Description	Qty.
CH4047	Monitoring/control thermometer	1/ea

# Temperature Monitoring

## Thermometers - Digital General Use

### Flip-Stick Digital Thermometer

CARDINAL HEALTH

- NIST Compliant® with certificate
- One second temperature sensing time
- Minimum and maximum memory
- °C/°F switchable
- Data hold/test function
- 5½ in. probe
- Probe folds in - out for on and off



#### Specifications:

Range .....-50°C to 300°C (-58°F to 572°F)  
 Resolution .....0.1°C -19.9°C to 199.9°C  
 Accuracy .....±1°C (1.8°F)  
 Adjustable angles .....45°, 90°, 135°, 180°

Cat. No.	Description	Qty.
CH-4272	Flip-stick thermometer	1/ea



### Pocket Digital Thermometer

CARDINAL HEALTH

- NIST Compliant® with certificate
- One second normal temperature sensing time
- Min/max temperature memory recall
- °C/°F switchable
- Data hold/test function selectable
- Low battery indicator
- One hour auto shut off
- 4 in. stainless steel sensor probe
- Protective plastic sleeve with clip
- Rubber coated housing
- Battery included

#### Specifications:

Range .....-50°C to 300°C (-58°F to 572°F)  
 Resolution .....0.1°C -19.9°C to 199.9°C, otherwise 1°  
 Accuracy .....±1°C (1.8°F)

Cat. No.	Description	Qty.
CH-4050	Pocket digital thermometer	1/ea

### Jumbo Display Dial Digital Thermometer

CARDINAL HEALTH

- NIST Compliant® with certificate
- One second normal temperature sensing time
- Min/max temperature memory recall
- °C/°F switchable
- Data hold/test function selectable
- Low battery indicator
- One hour auto shut off
- 5.25 in. stainless steel probe
- Protective plastic sleeve with clip
- "393" 1.5 V battery included



CH4049



CH2971-2

**CH2971-2:** water resistant, 3.8 in. (97 mm) stainless steel probe with 1 meter of cable

#### Specifications:

Range ..... -50°C to 300°C (-58°F to 572°F)  
 Resolution ..... 0.1°C -19.9°C to 199.9°C, otherwise 1°  
 Accuracy ..... ±1°C (1.8°F)

Cat. No.	Description	Qty.
CH4049	Jumbo dial thermometer - 5.25 in. probe	1/ea
CH2971-2	Jumbo dial thermometer - 3.8 in. probe	1/ea

# Temperature Monitoring

## Thermometers - Digital General Use-Stem



### Long-Stem and Ultra Long-Stem Digital Thermometer

CARDINAL HEALTH

#### CH2960-9

- NIST Compliant® with certificate
- 12 in. probe

#### CH2960-10

- NIST Compliant® with certificate
- 12 in. probe
- Calibrated to 0.5°C

#### Specifications:

Range .....-50°C to 300°C (-58°F to 572°F)

Cat. No.	Description	Qty.
CH2960-9	Long-stem thermometer	1/ea
CH2960-10	Ultra long-stem thermometer	1/ea



### Waterproof and Ultra Waterproof Digital Thermometer

CARDINAL HEALTH

#### CH2960-15

- NIST Compliant® with certificate
- 5 in. probe

#### CH2960-16

- NIST Compliant® with certificate
- 5 in. probe
- Calibrated to 0.5°C

#### Specifications:

Range .....-50°C to 300°C (-58°F to 572°F)

Cat. No.	Description	Qty.
CH2960-15	Waterproof thermometer	1/ea
CH2960-16	Ultra waterproof thermometer	1/ea

### Wide Range and Ultra Wide Range Long-Stem Digital Thermometer

CARDINAL HEALTH

- NIST Compliant® with certificate
- °C/°F switchable
- 8 in. stainless steel stem with probe cover

#### Specifications:

#### CH2939-1

Range .....-50°C to +300°C (-58°F to +572°F)

Resolution .....0.1°C -20°C to 200°C, otherwise 1°

Accuracy.....±1°C between -30°C to 150°C

#### CH3018SUP

Range .....-50°C to 150°C (-58°F to 302°F)

Resolution .....0.1°

Accuracy.....±1°C between -20°C to 120°C "Supra" model ±0.2°C and 0.5°C @ test points

Cat. No.	Description	Qty.
CH2939-1	Wide range long-stem thermometer	1/ea
CH3018SUP	Ultra wide range long-stem thermometer	1/ea



# Temperature Monitoring

## Thermometers - Digital Precision

### Digital "K" Single Probe Thermocouple Thermometers

#### CARDINAL HEALTH

- NIST Compliant® with certificate
- Ten memory storage
- Min/max temperature memory recall
- High-low audible alarm function
- Count up timer (set from 1 min. to 23 hr. 59 min.)
- Optional 1 hour shut off
- Low battery indicator
- Back light
- PVC boot for protection
- Flip-out stand
- Immersion probe included
- Three AAA batteries, dust protector, water resistant case included

#### Specifications:

Range ..... -200°C to 1370°C (-328°F to 2498°F) 2.0°C, -200°C to 50°C (4.0°F, -328°F to -58°F)

Resolution ..... 0.1° for the whole range

Accuracy ..... 1°C/2.0°F -50° to 250° 2.0°C/4.0°F -200° to -51°, 251° to -500° 3.0°C/6.0°F 50° to 740°

Differential Measurement ..... (ΔT = T1-T2), ACC960K2 only

Cat. No.	Description	Qty.
CH2960-6	Digital "K" thermocouple thermometer with immersion probe	1/ea



### Precision - Single Probe Pt100 Thermometers

CARDINAL HEALTH - The handheld Pt100 thermometers are high precision, metrology grade, NIST Compliant® instruments. These high accuracy thermometers are used when temperature measurements are critical and/or when online documentation is required. Optional DE-Graph windows software for graphic and tabular documentation.

- NIST Compliant® - DKD/DAkKS
- Includes Pt100 platinum probe
- USB interface
- High measuring accuracy
- Integrated calibration function for simple compensation of sensor tolerances
- Two-line LCD, simultaneous display of two measured values
- Physical one-point, two-point or three-point calibration function
- Measuring channels are freely assignable
- Recording of minimum, maximum, hold and average values
- Integrated sensor holder for one hand operation
- 9 V battery

#### Specifications:

Measuring Range ..... -200°C to 850°C

Resolution ..... 0.01°C (-200°C to 200°C) otherwise 0.1°C respectively 0.1 %

Accuracy ..... ±0.03°C from -50°C to 199.99°C, ±0.05°C from -200°C to 200°C otherwise 0.05 % of reading

Connectors ..... DIN 8-pole

ProbeType ..... Temp and humidity immersion

Measuring Range ..... 30°C to 80°C, 0 to 100% RH

T90 Response Time ..... 8 seconds

Working Temperature ..... 0°C to 40°C (32°F to 104°F)

Dimensions ..... 8 x 3.5 x 1.5 in. (L x W x H)

Battery life ..... Approx. 20 hr.

Cat. No.	Description	Qty.
CHD650PP	Single Probe Pt100 high precision digital thermometer	1/ea





# Temperature Monitoring

## Thermometers - Infrared-Handheld

### ScanTemp 410 Handheld Infrared Thermometer

#### CARDINAL HEALTH

- Applications: HVAC, electrical maintenance, detect process maintenance problems
- Display hold
- °C/°F switchable
- Backlight display
- Pouch and two AAA 1.5 V batteries Included

#### Specifications:

Range ..... -33°C to 500°C  
 Accuracy ..... ±2% or 2°C whichever is greater  
 Repeatability ..... ±1% of reading or ±1°C, whichever is greater  
 Optical Resolution ..... 11:1  
 Display Resolution ..... 0.1°C (4 digit LCD)  
 Working Temperature ..... 0°C to 50°C  
 Response time ..... 1 second  
 Spectral Response ..... 6–14 µm  
 Emissivity ..... 0.95 max temperature  
 Dimensions/weight ..... 175 x 39 x 79 mm/180 g

Cat. No.	Description	Qty.
CH2960-11	ScanTemp 410 infrared thermometer - min/max readings	1/ea
CH2960-14	ScanTemp 410 infrared thermometer	1/ea

### ScanTemp 440 Handheld Infrared Thermometer

#### CARDINAL HEALTH

- **NIST Compliant® with certificate**
- Type K Probe Input (use any standard K probe)
- Simultaneous display of max/min and alarm
- Laser sighting
- °C/°F switchable
- Backlight display
- Adjustable emissivity
- Functions: hold, min/max, dif and avg
- Alarm function, high/low, audible and visual
- Lock mode for continuous measurements
- Pouch and two AAA 1.5 V batteries included

#### Specifications:

Range laser ..... -33°C to 500°C  
 Thermocouple input ..... -64°C to 1400°C  
 Accuracy laser ..... ±2% or 2°C whichever is greater  
 Thermocouple input ..... ±1% or 1°C whichever is greater  
 Optical resolution ..... 11:1  
 Display resolution ..... 0.1°C (above 200°C 1°C)  
 Working temperature ..... 0°C to 50°C  
 Response time ..... 1 second  
 Spectral response ..... 6–14 µm  
 Emissivity ..... Adjustable 0.10 to 1.00  
 Dimensions/weight ..... 175 x 39 x 79 mm/180 g

Cat. No.	Description	Qty.
CH2971-11	ScanTemp 440 infrared thermometer	1/ea

### ScanTemp - 485 Professional Handheld Infrared

**CARDINAL HEALTH** - ScanTemp 485 infrared thermometer is high precision due to a special glass lens with double-laser sighting. It shows the exact spot size area and an optical resolution of 20:1. This allows technicians to carry out accurate non-contact surface measurements for electrical, mechanical maintenance, HVAC checks, automotive testing and other applications that temperature is a factor.

- **NIST Compliant® with certificate**
- Precision glass optics for accurate non-contact temperature measurement
- Laser sighting with narrow beam aiming for accurate readings
- °C/°F switchable
- Backlight display
- Functions: hold, min/max, Ems and scan
- Alarm function, high/low, audible and visual
- Pouch and 9 V alkaline battery included

#### Specifications:

Range ..... -50°C to 800°C (-58°F to 1472°F)  
 Accuracy ..... ±2% or ±2°C  
 Optical resolution (D:S) ..... 20:1, (0.8340277778)  
 Display resolution ..... 0.1°C (0.1°F)  
 Response time (95%): ..... Approx. 0.2 second  
 Ambient temperature ..... 0°C to 50°C  
 Spectral response ..... 8–4 µm  
 Emissivity ..... 0.10–1.00  
 Spectral response ..... 6–14 µm  
 Laser: ..... <1mW laser class IIa  
 Battery life ..... 20 hours with 50% laser and backlight;  
 40 hours laser and backlight off  
 Dimensions/weight ..... 146 x 104 x 43 mm/450 g

Cat. No.	Description	Qty.
CH-4375	ScanTemp 485 infrared thermometer	1/ea

### High-Temperature Plus Infrared Thermometer

#### CARDINAL HEALTH

#### Specifications:

Range ..... -50°C to 1000°C(°F)  
 Accuracy ..... ±2%  
 Response time ..... 0.2 seconds

Cat. No.	Description	Qty.
CH2971-13	High-temperature plus infrared thermometer	1/ea

# Temperature Monitoring

## Thermometers - Infrared-Pocket

### Flash III Infrared Thermometer with Laser Spotting

#### CARDINAL HEALTH

- °C/°F switchable
- Min/max memory recall
- Automatic hold
- Lock-mode for continued measurements with laser
- Adjustable emissivity
- Two CR2032 cell batteries included



#### Specifications:

Range .....-55°C to 250°C  
 Accuracy.....±2% or ±2°C  
 Repeatability .....1% or ±1°C  
 Display resolution.....0.1°C  
 Response time.....0.05 second  
 Working temperature .....0°C to 50°C  
 Storage temperature.....-20°C to 50°C  
 Emissivity.....0.01 to 1.00 adjustable  
 Optical Resolution .....6:1  
 Dimensions/weight .....104 x 60 x 21.5 mm/110 g

Cat. No.	Description	Qty.
CH2971-10	Flash III infrared thermometer	1/ea

### Mini-Flash Infrared Thermometer

CARDINAL HEALTH - Mini-Flash Infrared thermometer is very simple to use. To measure a temperature point unit at object, pull the trigger and read the measuring value from the display. Used for easy and quick measurements on surfaces.

- °C/°F switchable
- Min/max memory recall
- Automatic hold
- Lock-mode for continued measurements
- CR2032 cell battery included



#### Specifications:

Range .....-33°C to 220°C (-27°F to 428°F)  
 Accuracy.....0°C to 50°C ±1.5°C, otherwise 2% or ±2°C  
 Repeatability .....1% or ±1°C  
 Display resolution.....0.1°C  
 Response time.....0.5 second  
 Working temperature .....0°C to 50°C  
 Storage temperature.....-20°C to 50°C  
 Emissivity.....0.95 fix  
 Distance: Spot size .....1.3:1  
 Dimensions.....68 x 37 x 18 mm

Cat. No.	Description	Qty.
CH2960-12	Mini-flash infrared thermometer	1/ea



### Flash-Pen Infrared Thermometer

CARDINAL HEALTH - Rely on this IR thermometer for quick and easy surface temperature measurements. Ideal for HVAC, plant maintenance, technicians, electricians, mechanics, health care workers and many others.

- °C/°F switchable
- Pocket with clip
- Made of durable metal
- Digital readout
- Two LR 44 button cell batteries included

#### Specifications:

Range .....-33°C to 220°C (-27°F to 428°F)  
 Accuracy.....±2% or ± 2°C  
 Response time.....Approx. 1 second  
 Dimensions.....87 x 18 x 16 mm

Cat. No.	Description	Qty.
CH2971-9	Flash-pen infrared thermometer	1/ea



**Equipped**  
to make a difference.

# Temperature Monitoring

## Thermometers - Liquid in Glass



CH50CW3BLS



CH260CW



CH300FWS



CH6371



CH230FW3S - CH230F3SSC



CH1050CWS



CH10053



CH645



CH535S-1

### Glass Thermometers

#### CARDINAL HEALTH

- NIST Compliant®

Cat. No.	Description	Range	Divisions
CH10053	76 mm immersion thermometer	-1°C to 101°C	0.2°C
CH50CW3BLS	76 mm immersion spirit-filled thermometer	-35°C to 50°C	1°C
CH645	Short-immersion thermometer - mercury - length 75 mm - 12 mm immersion	0°C to 50°C	1°C
CH260CW	Total-immersion spirit-filled thermometer	-20°C to 260°C	1°C
CH300FWS	Total-immersion spirit-filled thermometer	0°F to 300°F	2°F
CH6371	Incubator thermometer - enlargement for correct immersion - mercury	0°C to 50°C	0.5°C
CH230FW3S	Organic thermometer	0°F to 230°F	2°F
CH230F3SSC	Organic thermometer - safety coated	0°F to 230°F	2°F
CH1050CWS	Spirit-filled thermometer	-10°C to 50°C	0.5°C
CH535S-1	Tissue flotation bath thermometer - lays flat on bottom of bath - easy to read	-20°C to 105°C	1°C

### Minimum/Maximum Thermometer

**CARDINAL HEALTH** - This minimum/maximum thermometer is used to monitor temperatures in freezers, refrigerators and incubators as well as ambient air. It registers the highest and lowest temperatures reached over a certain time frame and then can be reset with the push-button feature. Spirit filled total immersion thermometer is enclosed in ABS plastic housing.

- Fahrenheit and Celsius Scales
- Push-button reset

#### Specifications:

Range ..... -40°C to 50°C (-40°F to 120°F)  
 Accuracy ..... ±2%  
 Divisions ..... 1°C and 2°F  
 Dimensions ..... 8 x 2½ x 1 in. (H x L x W)



Cat. No.	Description	Qty.
CHB12408	Minimum/maximum thermometer	1/ea



### Refrigerator/Freezer Hanging Thermometer

**CARDINAL HEALTH** - This dualscale thermometer is ideal for both refrigerators and freezers. It features an enclosed bulb to help ensure average temperature readings and an open scale for easy, accurate readings. The thermometer's rust-resistant case has stainless steel hangers with keyhole brackets for easy hanging and removal. Enamelled aluminium scale. Thermometer can hang or stand.

#### Specifications:

Temperature Range ..... -40°C to 25°C (-40°F to 80°F)

Cat. No.	Description	Qty.
CH5001	Refrigerator/freezer hanging thermometer	1/ea

# Test Tubes and Closures

## Caps and Closures - Cork/Flange Cap/Plug Type

### XXX Laboratory-Grade Corks

**CARDINAL HEALTH** - XXX standard laboratory-grade quality corks are recommended for routine closures. These corks are fine grain and uniform in quality.



Cat. No.	Size No.	Qty.
C8205-3T	000	500/pk
C8205-2T	00	500/pk
C8205-1T	0	500/pk
C8205-1	1	500/pk
C8205-2	2	500/pk
C8205-4	4	500/pk
C8205-5	5	500/pk



### AccuTube® Flange Cap Closures

**CARDINAL HEALTH** - AccuTube® flange caps are made from non-autoclavable, low-density polyethylene. The flange seal allows easy opening and closure and provides universal fit on 12 and 13 mm test and culture tubes. Natural color.

Cat. No.	Description	Qty.
T1226-37	Polyethylene flange cap closure	10,000/cs

### Flange Plug Caps

**CARDINAL HEALTH** - These polyethylene caps have two flexible flanges for a liquid-tight seal. Designed to fit into test tubes, round cuvettes and centrifuge tubes, these caps help prevent spills and evaporation. Available in assorted colors.



Cat. No.	Description	Qty.
<b>12mm/13 mm</b>		
CHPCFBL	Blue	10,000/cs
CHPCFLV	Lavender	10,000/cs
CHPCFORG	Orange	10,000/cs
CHPCFRD	Red	10,000/cs
CHPCFWH	White	10,000/cs
CHPCFYL	Yellow	10,000/cs
<b>16 mm</b>		
CHPCFNT16	Natural	10,000/cs



### LDPE Flange Caps

**STOCKWELL** - Ideal for resealing test tubes and culture tubes, these caps help prevent spills and evaporation by employing a liquid-tight seal.

Cat. No.	Mfr. No.	Description	Qty.
<b>12mm caps</b>			
8559BA	8559B	Blue	1,000/bg
8559G	8559G	Green	1,000/bg
8559	8559	Natural	1,000/bg
<b>16mm cap</b>			
8558	8558	Natural	1,000/bg

### 20mm Gray Butyl Two-Leg Lyophilization Stopper

**WHEATON** - This all-purpose design for lyophilization applications reduces the possibility of legs sticking to each other. Stopper fits 13 x 20 mm (I.D. x O.D.).



Cat. No.	Mfr. No.	Description	Qty.
B7764-11	W224100-193	Lyophilization stopper	1,000/cs



### AccuTube® Plug Closures

**CARDINAL HEALTH** - These low-density polyethylene plug caps fit snugly on 12 mm tubes.

Cat. No.	Description	Qty.
B2996-72	Blue	5,000/cs
B2996-73	Green	5,000/cs
B2996-75	Natural	5,000/cs
B2996-71	Red	5,000/cs
B2996-74	Yellow	5,000/cs
B2996-70	White	5,000/cs



### AccuTube® Snap Cap Closures

**CARDINAL HEALTH** - This universal snap cap closure snugly fits both glass and plastic blood collection tubes. Caps are made from molded polyethylene to securely seal and transfer specimens and provide technician safety. Same cap fits 10, 12 and 13 mm tubes.

Cat. No.	Description	Qty.
T1226-39	Polyethylene snap cap closure	10,000/cs



# Test Tubes and Closures

## Caps and Closures - Plug Type

### SAV-IT® Closures

**CARDINAL HEALTH** - SAV-IT closures are disposable safety caps for use with evacuated blood drawing tubes, glass and plastic test tubes. Closures provide a firm, positive, leak-resistant seal under various storage conditions. Closures will not pop off or interfere with most common chemistry, coagulation and drug monitoring methodologies. SAV-IT® closures can also be pierced and used with closed tube instrumentation. A one-handed technique can be used for applying and removing the SAV-IT® closure. Fit 12, 13 and 16 mm tubes.

SAV-IT® is a registered trademark of Quality Scientific Plastics, Inc.



Cat. No.	Description	Qty.
<b>12mm/13 mm</b>		
B2996-18	Red	10,000/cs
B2996-19	Green	10,000/cs
B2996-20	Lavender	10,000/cs
B2996-21	Black	10,000/cs
B2996-22	Blue	10,000/cs
B2996-23	Gray	10,000/cs
B2996-24	Yellow	10,000/cs
B2996-25	White	10,000/cs
<b>16 mm</b>		
B2996-10	Red	10,000/cs
B2996-11	Green	10,000/cs
B2996-12	Lavender	10,000/cs
B2996-13	Black	10,000/cs
B2996-14	Blue	10,000/cs
B2996-15	Gray	10,000/cs
B2996-16	Yellow	10,000/cs
B2996-17	White	10,000/cs

### Snap Cap Closures

**CARDINAL HEALTH** - Snap cap closure protective caps clamp firmly on tubes to help preserve sample integrity and to reduce the risk of accidental infection of laboratory personnel.

Caps are precision molded from low-density polyethylene, with a double-flanged seal and thumb tab that allows you to secure and remove caps easily. Two cap sizes fit most 13 mm or 16 mm glass blood collection tubes and 12 mm plastic culture tubes.

Seven colors give you at-a-glance sample identification and enable you to match the original stopper color. The caps are packaged in a protective poly bag within dispenser box for convenient benchtop use and storage.

**NOTE:** Do not use with glass culture tubes.



Cat. No.	Description	Qty.
<b>12mm/13 mm</b>		
B3035-82V	Blue	10,000/cs
B3035-86V	Gray	10,000/cs
B3035-83V	Green	10,000/cs
B3035-85V	Lavender	10,000/cs
B3035-81V	Red	10,000/cs
B3035-80V	White	10,000/cs
B3035-84V	Yellow	10,000/cs
<b>16 mm</b>		
B3035-52V	Blue	10,000/cs
B3035-56V	Gray	10,000/cs
B3035-53V	Green	10,000/cs
B3035-55V	Lavender	10,000/cs
B3035-51V	Red	10,000/cs
B3035-50V	White	10,000/cs
B3035-54V	Yellow	10,000/cs

### Standard Plug Caps

**CARDINAL HEALTH** - These low density polyethylene plug caps fit snugly in 12 mm tubes.



Cat. No.	Description	Qty.
<b>12 mm - hollow top</b>		
CHPCSBL12	Blue	10,000/cs
CHPCSGN12	Green	10,000/cs
CHPCSNT12	Natural	10,000/cs
CHPCSRD12	Red	10,000/cs
CHPCSWH12	White	10,000/cs
CHPCSYL12	Yellow	10,000/cs

### Universal Plug Cap Closures

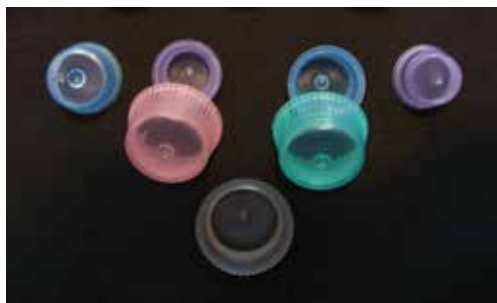
**CARDINAL HEALTH** - For a firm, positive closure with a universal cap, turn to these universal plug cap closures. Whether you want to seal inside the tube or over the tube rim, these one-size caps fit a wide range of tube sizes, making them ideal for laboratory standardization. You need just one hand to seal them under various temperature and storage conditions. They provide a strong seal to help sample integrity, while preventing loss due to evaporation. Available in seven colors.



Cat. no.	Description	Qty.
<b>10 mm, 12 mm, 13 mm and 16 mm</b>		
CHPCUBK	Black	10,000/cs
CHPCUBL	Blue	10,000/cs
CHPCUGY	Gray	10,000/cs
CHPCUGN	Green	10,000/cs
CHPCULV	Lavender	10,000/cs
CHPCURD	Red	10,000/cs
CHPCUYL	Yellow	10,000/cs

# Test Tubes and Closures

## Caps and Closures - Plug Type



### Uni-Flex Safety Caps™

BIO PLAS - Uni-Flex Safety Caps™ can be used to cap and recap disposable blood collection tubes and disposable culture tubes. The stretchable Uni-Flex Safety Caps™ can easily be applied or removed with one hand. A liquid-tight seal locks the cap securely onto the outside of the tube lip to help prevent sample spillage, and sample will not aerosolize when opened. Uni-Flex Safety Caps™ are designed to hold under centrifugation, agitation, refrigeration and freezing. They are available in different colors for convenient identification of samples. The 16 mm size will fit both disposable culture tubes and disposable blood collection tubes. Natural colored caps are trace metal-free.

Cat. No.	Mfr. No.	Description	Qty.
<b>For 12 mm culture tubes or 13 mm blood collection tubes</b>			
<b>B2997-8</b>	6550	Natural	1,000/pk, 10 pk/cs
<b>B2997-9</b>	6555	Red	1,000/pk, 10 pk/cs
<b>B2997-10</b>	6560	Lavender	1,000/pk, 10 pk/cs
<b>B2997-11</b>	6565	Green	1,000/pk, 10 pk/cs
<b>B2997-12</b>	6570	Blue	1,000/pk, 10 pk/cs
<b>B2997-13</b>	6575	Gray	1,000/pk, 10 pk/cs
<b>For 13 mm culture tubes</b>			
<b>B2997-15</b>	6600	Natural	1,000/pk, 10 pk/cs
<b>B2997-16</b>	6605	Red	1,000/pk, 10 pk/cs
<b>B2997-17</b>	6610	Lavender	1,000/pk, 10 pk/cs
<b>B2997-18</b>	6615	Green	1,000/pk, 10 pk/cs
<b>B2997-19</b>	6620	Blue	1,000/pk, 10 pk/cs
<b>B2997-21</b>	6630	Yellow	1,000/pk, 10 pk/cs
<b>For 16 mm culture and blood collection tubes</b>			
<b>B2997-22</b>	6700	Natural	1,000/pk, 10 pk/cs
<b>B2997-23</b>	6705	Red	1,000/pk, 10 pk/cs
<b>B2997-24</b>	6710	Lavender	1,000/pk, 10 pk/cs
<b>B2997-26</b>	6720	Blue	1,000/pk, 10 pk/cs
<b>B2997-28</b>	6730	Yellow	1,000/pk, 10 pk/cs

### Polyethylene Test Tube Caps

EVERGREEN SCIENTIFIC - This nonsterile, precision-molded polyethylene stopper cap for test tubes is available in a standard cap style. It is intended for use with 13 mm tubes.



Cat. No.	Mfr. No.	Description	Qty.
<b>3002913Y</b>	300-2913-Y20	Yellow	1,000/pk

### Color-Coded Polyethylene Test Tube Caps

STOCKWELL - Color-coded polyethylene test tube caps are ideal for color-coding tests. Snug-fitting caps enable one-handed cap action. Use these plug caps with Stockwell 12 x 75 mm tubes.



Cat. No.	Mfr. No.	Description	Qty.
<b>T1224-11</b>	8565B-10	Blue	1,000/pk, 10 pk/cs
<b>T1224-12</b>	8565G-10	Green	1,000/pk, 10 pk/cs
<b>T1224-17</b>	8565-10	White	1,000/pk, 10 pk/cs

### Plug Caps for Transport Tubes

STOCKWELL - Use this 16 mm plug cap with ST8577.



Cat. No.	Mfr. No.	Description	Qty.
<b>8589</b>	8589	LDPE plug cap, white - hollow bottom - 16 mm	1,000/bg

### Polyethylene Tube Caps

STOCKWELL - Use polyethylene thumb caps for resealing evacuated glass and glass culture tubes. Choose from a variety of colors.



Cat. No.	Mfr. No.	Description	Qty.
<b>For 12 mm glass culture tubes and 13 mm glass evacuated tubes</b>			
<b>8569B</b>	8569B	Blue	1,000/bg
<b>8569G</b>	8569G	Green	1,000/bg
<b>8569L</b>	8569L	Lavender	1,000/bg
<b>8569R</b>	8569R	Red	1,000/bg
<b>8569</b>	8569	White	1,000/bg
<b>8569Y</b>	8569Y	Yellow	1,000/bg
<b>For 13 mm glass culture tubes</b>			
<b>8573B</b>	8573B	Blue	1,000/bg
<b>8573SI</b>	8573SI	Gray	1,000/bg
<b>8573G</b>	8573G	Green	1,000/bg
<b>8573L</b>	8573L	Lavender	1,000/bg
<b>8573R</b>	8573R	Red	1,000/bg
<b>S8573</b>	8573	White	1,000/bg
<b>For 16 mm glass tubes</b>			
<b>8579B</b>	8579B	Blue	1,000/bg
<b>8579G</b>	8579G	Green	1,000/bg
<b>8579R</b>	8579R	Red	1,000/bg
<b>S8579</b>	8579	White	1,000/bg

# Test Tubes and Closures

## Centrifuge Tubes

### Microcentrifuge Tubes with Locking Lid

**CARDINAL HEALTH** - These locking-lid microcentrifuge tubes feature a pierceable cap that snaps closed and locks into place in a convenient one-handed operation. Tubes are ideal for use in sample-handling applications, including centrifugation, boiling and freezing of specimens, incubation and storage. They are made of polypropylene and have graduation marks to facilitate volume estimation. Available in three sizes and a range of colors. Each size is also available in an individually-wrapped sterilized version, natural color.



Cat. No.	Description	Qty.
<b>0.6 mL tubes</b>		
C1300-62	Natural	1,000/pk, 10,000/cs
C1300-63	Red	1,000/pk, 10,000/cs
C1300-64	Blue	1,000/pk, 10,000/cs
C1300-65	Green	1,000/pk, 10,000/cs
C1300-66	Yellow	1,000/pk, 10,000/cs
C1300-68	Violet	1,000/pk, 10,000/cs
<b>1.5 to 1.7 mL tubes</b>		
C1300-42	Blue	500/pk, 5,000/cs
C1300-43	Green	500/pk, 5,000/cs
C1300-44	Natural	500/pk, 5,000/cs
C1300-45	Yellow	500/pk, 5,000/cs
C1300-50	Mixed	500/pk, 5,000/cs
<b>2 mL tubes</b>		
C1300-52	Natural	500/pk, 5,000/cs
C1300-60	Mixed	500/pk, 5,000/cs
<b>Sterilized tubes, individually-wrapped</b>		
C1300-71	0.6 mL	500/pk, 5,000/cs
C1300-51	1.5 to 1.7 mL	250/pk, 2,500/cs
C1300-61	2 mL	250/pk, 2,500/cs

### Microcentrifuge Tubes with Attached Snap Cap

**CARDINAL HEALTH** - Designed for use with a wide variety of centrifuge models, these conical microcentrifuge tubes feature a permanently attached snap cap that provides a leak-resistant seal. C1300-40 is made of polyethylene and is not autoclavable.



Cat. No.	Description	Volume	Qty.
C1300-40	Polyethylene	0.4 mL	1,000/pk, 10,000/cs
C1300-41	Polypropylene	25 mL	1,000/pk, 10,000/cs

### Microcentrifuge Tubes with Snap Cap

**CARDINAL HEALTH** - These high-performance polypropylene tubes are autoclavable to 120°C and freezable to -80°C. Designed for a range of sample handling, processing and storage applications, tubes are available in three volumes and an assortment of colors. Tubes have flat-top snap cap, except 1.5 mL tubes, which also are available with indented-top snap cap. Caps are pierceable to facilitate sample removal.



The 0.6 mL tubes are ideal for PCR\* applications. The 1.5 and 2 mL tubes are graduated for easy volume estimation, have a frosted writing area on both tube and cap for identification of contents and are also available in a sterilized version, individually-wrapped. Snap-seal closure resists leakage. Designed to withstand 17,000 to 30,000 x g.

Cat. No.	Description	Qty.
<b>0.6 mL tubes with flat-top cap, plain</b>		
C1300-11	Natural	1,000/pk, 10,000/cs
C1300-12	Red	1,000/pk, 10,000/cs
C1300-13	Blue	1,000/pk, 10,000/cs
C1300-14	Green	1,000/pk, 10,000/cs
C1300-15	Yellow	1,000/pk, 10,000/cs
C1300-19	Mixed	1,000/pk, 10,000/cs
<b>1.5 mL tubes with flat-top cap, graduated</b>		
C1300-21	Red	500/pk, 5,000/cs
C1300-22	Blue	500/pk, 5,000/cs
C1300-23	Green	500/pk, 5,000/cs
C1300-24	Yellow	500/pk, 5,000/cs
C1300-26	Violet	500/pk, 5,000/cs
C1300-27	Amber	500/pk, 5,000/cs
C1300-28	Mixed	500/pk, 5,000/cs
C1300-29	Natural	500/pk, 5,000/cs
<b>2 mL tubes with flat-top cap, graduated</b>		
C1300-31	Red	500/pk, 5,000/cs
C1300-31X	Natural	500/pk, 5,000/cs
C1300-32	Yellow	500/pk, 5,000/cs
C1300-36	Violet	500/pk, 5,000/cs
C1300-37	Amber	500/pk, 5,000/cs
C1300-38	Mixed	500/pk, 5,000/cs
<b>Sterilized tubes with flat-top cap, graduated</b>		
C1300-30	Natural, 1.5 mL	250/pk, 2,500/cs
C1300-39	Natural, 2 mL	250/pk, 2,500/cs

\* Patent owned by Hoffman-La Roche, Inc.

# Test Tubes and Closures

## Centrifuge Tubes

### Screw-Top Microcentrifuge Tubes and Screw Caps

**CARDINAL HEALTH** - These sturdy polypropylene screw-top tubes are suitable for vapor-phase liquid nitrogen storage, boiling and autoclaving. Designed to withstand 18,000 to 25,000 x g. Tubes feature external ribs to help you position and lock them into racks and to facilitate single-handed opening and closing. Order tubes and screw caps separately, or choose sterilized tubes, which are supplied with a cap. All tubes and caps have a frosted writing area and are autoclavable. Tubes C1300-82 and C1300-83 are also graduated.



Screw-top tubes with skirt



Screw caps with and without O-ring

Choose tubes in skirted or conical style, natural or amber color, in 0.5 mL, 1.5 mL and 2 mL sizes. Individual caps are available with or without O-ring and can be pierced for sample removal. Sterilized tubes are natural color and include screw cap with O-ring.

Cat. No.	Description	Qty.
<b>0.5 mL tubes only</b>		
<b>C1300-72</b>	Skirted, natural	500/pk, 5,000/cs
<b>1.5 mL tubes only</b>		
<b>C1300-76</b>	Conical, natural	500/pk, 5,000/cs
<b>C1300-77</b>	Conical, amber	500/pk, 5,000/cs
<b>C1300-78</b>	Skirted, natural	500/pk, 5,000/cs
<b>2 mL tubes only</b>		
<b>C1300-80</b>	Conical, natural	500/pk, 5,000/cs
<b>C1300-81</b>	Conical, amber	500/pk, 5,000/cs
<b>C1300-82</b>	Skirted, natural	500/pk, 5,000/cs
<b>C1300-83</b>	Skirted, amber	500/pk, 5,000/cs
<b>Screw caps without O-ring</b>		
<b>C1310-1</b>	Natural	500/pk, 5,000/cs
<b>C1310-2</b>	Blue	500/pk, 5,000/cs
<b>C1310-3</b>	Yellow	500/pk, 5,000/cs
<b>C1310-4</b>	Red	500/pk, 5,000/cs
<b>C1310-11</b>	Mixed	500/pk, 5,000/cs
<b>Screw caps with O-ring</b>		
<b>C1310-12</b>	Natural	500/pk, 5,000/cs
<b>C1310-13</b>	Blue	500/pk, 5,000/cs
<b>C1310-14</b>	Yellow	500/pk, 5,000/cs
<b>C1310-15</b>	Red	500/pk, 5,000/cs
<b>C1310-17</b>	Green	500/pk, 5,000/cs
<b>C1310-18</b>	Orange	500/pk, 5,000/cs
<b>C1310-20</b>	Violet	500/pk, 5,000/cs
<b>C1310-21</b>	Amber	500/pk, 5,000/cs
<b>C1310-22</b>	Mixed	500/pk, 5,000/cs
<b>Skirted sterile tubes with O-ring screw cap</b>		
<b>C1310-24</b>	0.5mL	500/pk, 2,500/cs
<b>C1310-26</b>	1.5mL	500/pk, 2,500/cs
<b>C1310-28</b>	2mL	500/pk, 2,500/cs
<b>Conical sterile tubes with O-ring screw cap</b>		
<b>C1310-25</b>	0.5mL	500/pk, 2,500/cs
<b>C1310-27</b>	1.5mL	500/pk, 2,500/cs
<b>C1310-29</b>	2mL	500/pk, 2,500/cs



### Costar® 1.7 mL Microcentrifuge Tubes with Snap Cap

**CORNING** - Sized for convenient handling and recovery of small samples. These precision-molded polypropylene tubes feature external graduations and a frosted writing surface for easy identification. The snap cap has a flat surface for convenient labeling and a positive seal design that allows repeated opening and closing. All tubes are compatible with most microcentrifuge rotors and are designed to withstand a maximum RCF of 17,000 x g. They are certified RNase- and DNase-free. Tubes are nonsterile and autoclavable.

Cat. No.	Mfr. No.	Description	Qty.
<b>CC3620</b>	3620	Natural	500/cs
<b>CC3622</b>	3622	Assorted	500/cs

### Conical Microcentrifuge Tubes with Anticoagulant

**EPPENDORF** - These heparin-coated tubes are designed for use with all Eppendorf microcentrifuges and are color-coded for easy identification. The coating reduces the incidence of coagulation. Samples can be centrifuged within minutes of collection. There are 1,000 tubes per package.

Cat. No.	Mfr. No.	Description	Qty.
<b>C3515-21</b>	22379208	1.5 mL polypropylene (10 x 11 mm) - Heparin-Li	1,000/pk

### DNA LoBind Microcentrifuge Tubes

**EPPENDORF** - DNA LoBind tubes improve recovery of nucleic acids by reducing their adsorption to the tube wall. A combination of special manufacturing technologies and selected polypropylene batches ensures nearly 100% recovery of DNA/RNA molecules—without surface coating to eliminate the risk of sample contamination. DNA LoBind tubes are batch-tested and certified by an independent laboratory to be free from DNA, DNase, RNase and PCR inhibitors. Small packaging in bags of 50 tubes further helps reduce the risk of contamination.



Cat. No.	Mfr. No.	Description	Qty.
<b>C3515-401</b>	22431005	0.5 mL capacity - natural	250/cs
<b>C3515-402</b>	22431021	1.5 mL capacity - natural	250/cs
<b>C3515-403</b>	22431048	2.0 mL capacity - natural	250/cs



# Test Tubes and Closures

## Centrifuge Tubes

### Flex-Tube® Microcentrifuge Tubes

EPPENDORF - The easy-open, easy-close design of these tubes provides convenient and reliable sample preparation, centrifugation and storage. The 1.5 mL tubes remain tightly sealed during centrifugation and other laboratory procedures. They also have an etched writing surface for convenient sample identification and volume graduations. The tubes are autoclavable at 121°C.

Cat. No.	Mfr. No.	Description	Qty.
C3515-10	22364111	Natural	500/cs



### Protein LoBind Microcentrifuge Tubes

EPPENDORF - Eppendorf Protein LoBind tubes are specifically designed for use in proteomics or other fields of protein research (antibodies, cell biology, peptide drugs, etc.), where protein concentration tends to be very small and sample recovery is vital for assay results. Significantly more protein can be recovered for downstream analyses and enzymes remain active, as they are not denatured by any tube-surface interactions.

Cat. No.	Mfr. No.	Description	Qty.
C3515-405	22431064	0.5 mL capacity - natural	100/cs
C3515-406	22431081	1.5 mL capacity - natural	100/cs
C3515-407	22431102	2.0 mL capacity - natural	100/cs



### Safe-Lock Microcentrifuge Tubes

EPPENDORF - The hinged lid on these polypropylene microcentrifuge tubes help prevent tubes from opening during critical procedures such as centrifugation, incubating, freezing, storing or shipping. Tubes stay securely closed yet are easily opened with one hand. Safe-lock helps eliminate sample loss and hazardous splash over. The 0.5, 1.5 and 2.0 mL test tubes have volume markings and labeling marking surfaces. They are autoclavable at 121°C.

Cat. No.	Mfr. No.	Description	Qty.
22363611	22363611	0.5 mL capacity - natural	500/cs
C3515-50	22363204	1.5 mL capacity - natural	500/pk
C3515-52	22363247	1.5 mL capacity - blue	500/pk
C3515-100	22363352	2.0 mL capacity - natural	500/cs

### Amber Push Cap Tube with Round Base

SARSTEDT - This 5 mL round base test tube is made from robust polypropylene with amber pigmentation to protect light-sensitive samples. Corresponding push caps are available separately.

Cat. No.	Mfr. No.	Description	Qty.
S55525002A	55.525.302	Volume - 5 mL, length/Ø (mm) - 75/13	250/pk, 8 pk/cs



### Push Cap Tubes with Round Base

SARSTEDT - Round base push cap tubes are available in polypropylene or polystyrene and in a range of sizes and volumes. Tubes are packaged in either bulk bags or oriented in compact and convenient StackPack boxes. Corresponding push caps are available separately.



Cat. No.	Mfr. No.	Description	Qty.
<b>Polystyrene</b>			
S55475005	55.475.305	Volume - 5 mL, length/Ø (mm) - 75/13	1,000/pk, 2 pk/cs
S55459	55.459	Volume - 13 mL, length/Ø (mm) - 100/16	500/pk, 2 pk/cs
<b>Polystyrene - packed in StackPacks</b>			
S55476	55.476.300	Volume - 5 mL, length/Ø (mm) - 75/12	500/pk, 4 pk/cs
S55466	55.466	Volume - 11.5 mL, length/Ø (mm) - 100/15.7	250/pk, 4 pk/cs
<b>Polypropylene</b>			
S55516	55.516.300	Volume - 8 mL, length/Ø (mm) - 100/13	500/pk, 4 pk/cs
S55598	55.598.006	Volume - 8.5 mL, length/Ø (mm) - 75/15.7	1,000/pk, 2 pk/cs
<b>Polypropylene - packed in StackPacks</b>			
S55526	55.526.300	Volume - 5 mL, length/Ø (mm) - 75/12	500/pk, 4 pk/cs
S55525	55.525	Volume - 5 mL, length/Ø (mm) - 75/13	500/pk, 4 pk/cs

# Test Tubes and Closures

## Centrifuge Tubes



### Sterile Screw Cap Micro Tube

SARSTEDT - Versatile screw cap micro tubes made from robust polypropylene are ideal for centrifugation, transport and storage. Caps feature an integral O-ring for secure, leak-resistant closure. Raised knurls around the tube circumference enable single-handed operation in corresponding Sarstedt gripper racks.

Cat. No.	Mfr. No.	Description	Qty.
<b>1.5 mL, conical base, neutral screw cap with O-ring</b>			
<b>S72692005</b>	72.692.005	Screw cap assembled, sterile	1,000/cs
<b>2.0 mL, conical base, neutral screw cap with O-ring</b>			
<b>S72693005</b>	72.693.005	Screw cap assembled, sterile	1,000/cs
<b>2.0 mL, conical base with skirt, neutral screw cap with O-ring</b>			
<b>S72694006</b>	72.694.006	Printed writing space and graduation, screw cap assembled, sterile	1,000/cs

### Tube with Round Base, Screw Cap from HD-PE

SARSTEDT - This 7 mL screw cap tube is made from premium polypropylene with high transparency for sample visibility. The tube has a round base for a variety of laboratory applications. A neutral HD-PE screw cap is included.

Cat. No.	Mfr. No.	Description	Qty.
<b>S60550034</b>	60.550.034	Volume - 7 mL, length/Ø (mm) - 82/13	1,000/cs



### Tube with Round Base, Screw Cap from HD-PE, with Graduation and Writing Space

SARSTEDT - This 4.5 mL screw cap tube is made from premium polypropylene with high transparency for sample visibility. The tube has a round base for a variety of laboratory applications and features a printed writing space and graduation. A neutral HD-PE screw cap is included.

Cat. No.	Mfr. No.	Description	Qty.
<b>S62557002</b>	62.557.002	Volume - 4.5 mL, length/Ø (mm) - 75/12	1,000/cs



### 15 mL Conical Centrifuge Tubes

STOCKWELL - These 15 mL conical centrifuge tubes are made from premium polystyrene and offer accurate graduations for precise results. Caps sold separately.



Cat. No.	Mfr. No.	Description	Qty.
<b>ST8516-500</b>	8516-500	Tray pack, 50 tubes per tray	10 trays/cs
<b>8514</b>	8514	Bulk pack, 250 tubes per pack	500/cs
<b>8515R</b>	8515	Bulk pack, 250 tubes per pack	1,000/cs

### Screw-Cap Centrifuge Tubes

STOCKWELL - Use these versatile centrifuge tubes for contaminant-sensitive separations. A molded-in sealing ring helps to ensure a leak-resistant seal without the contamination issues of cap liners. Available with molded graduations for reading ease. Polypropylene copolymer: 6400 RCF. Caps included.

Cat. No.	Mfr. No.	Description	Qty.
<b>3220R</b>	3220	Polypropylene, molded, nonsterile	500/cs



### Thermo Scientific Nalgene Round-Bottom Centrifuge Tubes

THERMO SCIENTIFIC - A special uniform diameter design gives better rotor fit and improved g-force tolerance. The molding technique produces a uniform wall thickness for greater strength. Polycarbonate tubes are autoclavable, crystal-clear and stronger than polypropylene. They withstand forces up to 50,000 x g in refrigerated and nonrefrigerated centrifuges.



Cat. No.	Mfr. No.	Description	Qty.
<b>C4051-12</b>	3117-0120	12 mL capacity - 16 x 103.1 mm	10/pk, 10 pk/cs

### Thermo Scientific Nunc™ EZFlip™ Conical Centrifuge Tubes

THERMO SCIENTIFIC - Nunc™ EZFlip™ Conical Centrifuge Tubes come in a proprietary hinged-cap tube system—with an ergonomic design for one-handed opening and closing. Thermo Scientific Nunc Labware Products are made from high-purity resins and molded using state-of-the-art processes. Plastic labware is a safer alternative to glass without sacrificing accuracy.



Cat. No.	Mfr. No.	Description	Qty.
<b>362695</b>	362695	Racked - 15 mL	50/pk, 10 pk/cs

# Test Tubes and Closures

## Test Tubes

### AccuTube® Test Tubes and Caps

**CARDINAL HEALTH** - These test tubes and caps are designed for demanding liquid handling and general laboratory applications. Test tubes feature uniform size, shape and wall thickness to help prevent cracking of the side walls and pinhole leaks. The special lip design provides for a precise fit when used with the appropriate cap closure to seal either inside the test tube or over the tube rim. Supplied with 12/13 mm polyethylene snap cap. Multifitting flange and snap caps, also 12/13 mm, are available separately. 12 x 75 mm size; 5 mL capacity.



Cat. No.	Description	Qty.
<b>T1226-22A</b>	12 x 75 culture tube, polystyrene tube only	1,000/cs
<b>T1226-12N</b>	12 x 75 culture tube, polypropylene tube only	1,000/cs
<b>T1226-37</b>	Flange	10,000/cs
<b>T1226-39</b>	Snap	10,000/cs

### Culture Tubes

**CARDINAL HEALTH** - Culture tubes are for general applications in blood banks, hematology, bacteriology, virology and tissue culture. These are premium-quality borosilicate glass tubes with a sturdy, uniform bottom and consistent length. Packaged in four shrink-wrapped shelf packs.



Cat. No.	Description	Qty.
<b>SP1290-2</b>	10 x 75 mm tubes	250 pk, 1,000/cs
<b>SP1290-3</b>	12 x 75 mm tubes	250 pk, 1,000/cs
<b>SP1290-4</b>	13 x 100 mm tubes	250 pk, 1,000/cs
<b>SP1290-6</b>	16 x 100 mm tubes	250 pk, 1,000/cs
<b>SP1290-13</b>	13 x 45 mm tubes	250 pk, 1,000/cs

### Microtiter/Dilution Tubes and Caps

**CARDINAL HEALTH** - Use these 1.2 mL microtiter tubes for a variety of laboratory procedures including harvesting cells, cell uptakes, receptor binding and liquid assays. They can also be used for test methodologies such as CMV, HSV, HTLV and EIA. Natural-color tubes available in plain or with frosted writing area. Tubes can be autoclaved, sealed and frozen for storage. Tubes R1226-34 and R1226-37 come in an 8 x 12 rack that features alphanumeric molded-in grids and is designed for use with robotic workstations such as Beckman® Biomek®, Tecan®, Cetus/Propette, Tomtec and other diluters and dispensers. Nonsterile and sterile caps fit 1.2 mL tubes.

*Beckman® and Biomek® are registered trademarks of Beckman Coulter, Inc.*

*Tecan® is a registered trademark of Tecan, Inc.*

Cat. No.	Description	Qty.
<b>Tubes only</b>		
<b>R1226-28</b>	Plain	1,000/pk, 10,000/cs
<b>R1226-29</b>	With frosted writing area	1,000/pk, 10,000/cs
<b>Tubes in standard rack</b>		
<b>R1226-30</b>	Plain	960/pk, 4,800/cs
<b>R1226-31</b>	Sterile, plain	960/pk, 4,800/cs
<b>R1226-32</b>	With frosted writing area	960/pk, 4,800/cs
<b>R1226-33</b>	Sterile, with frosted writing area	960/pk, 4,800/cs
<b>Tubes in rack with alphanumeric markings</b>		
<b>R1226-34</b>	Plain	960/pk, 4,800/cs
<b>R1226-35</b>	Sterile, plain	960/pk, 4,800/cs
<b>R1226-36</b>	With frosted writing area	960/pk, 4,800/cs
<b>R1226-37</b>	Sterile, with frosted writing area	960/pk, 4,800/cs
<b>Polyethylene micro caps</b>		
<b>R1226-42</b>	Nonsterile	960/pk, 4,800/cs

# Test Tubes and Closures

## Test Tubes

### Rim Top, KIMAX™ N-51A Borosilicate Glass Tubes

**CARDINAL HEALTH** - Borosilicate glass KIMAX™ -51 composition assures all-around chemical durability of commercial glasses now available for laboratory ware. Complies with ASTM Specification E438, Type I, Class B glass requirements. KIMAX™ -51 has excellent chemical resistance against sodium leaching—a factor common in soda lime glass products. These are premium quality tubes with sturdy, uniform bottoms and consistent lengths. Trays are shrink-wrapped in plastic film with tubes remaining in constant alignment for protection against in-transit breakage and contamination. Designed from ASTM Specification E890.



Cat. No.	Description	Qty.
60D73500	15 x 85 mm tubes	1,000/cs

### Transport Tubes

**CARDINAL HEALTH** - Use mailing tubes for all your sample transport and storage needs. They feature a frosted writing surface and molded-in graduations and sealing rings. Supplied with screw-cap closure.



Cat. No.	Description	Qty.
<b>Nonsterile tubes with cap, unassembled</b>		
T1233-4	5 mL	1,000/cs
T1233-5	10 mL	1,000/cs
T1233-3	Screw cap for 5 mL and 10 mL tube - blue	2,000/cs
<b>Sterile tubes with cap, assembled</b>		
T1233-6	5 mL	500/cs
T1233-7	10 mL	500/cs

### PYREX® Culture Tubes with Screw Cap

**CORNING** - These glass culture tubes are furnished with a deep-form plastic cap to facilitate handling and sealing after autoclaving. The cap is made from a special formula resistant to the temperature and steam of autoclaving. Caps are supplied with a glued-in white rubber liner or with a PTFE-faced rubber liner. Tubes have a white enamel spot for marking.



Cat. No.	Mfr. No.	Description	Qty.
<b>With white rubber liner - screw cap</b>			
T1360-1A	9825-13	Screw cap with 13-415 liner	144/pk, 2 pk/cs
T1360-4	9825-16XX	Screw cap with 15-415 liner	144/pk, 2 pk/cs
<b>With PTFE-faced rubber liner</b>			
T1356-1A	9826-13	Screw cap with 13-415 liner	144/pk, 2 pk/cs
T1356-8A	9826-20X	Screw cap with 18-415 liner	96/pk, 2 pk/cs

### PYREX® Disposable Culture Tubes

**CORNING** - These PYREX® one-use, rimless culture tubes are made of borosilicate glass to reduce pH changes and contaminants potentially leached from soda-lime glass. Tubes are packaged in easy-to-open, easy-to-use shelf packs. Tubes are available in dispenser or bulk pack.

Cat. No.	Mfr. No.	Description	Qty.
<b>Dispenser pack</b>			
T1311-10	99445-10	10 x 75 mm	1,000/cs
T1311-12	99445-12	12 x 75 mm	1,000/cs
<b>Bulk pack</b>			
T1311-16	99445-16	16 x 100 mm	1,000/cs
T1311-16X	99445-16X	16 x 125 mm	1,000/cs



### PYREX® Disposable Screw-Cap Culture Tubes

**CORNING** - Use these single-use culture tubes for both tissue culture and general bacteriological work. The round-bottom tubes without cap are made of borosilicate glass in a screw-cap style. Tubes have a white marking spot. Use with caps T1355-750 (13.5 mm) and T1355-750 (16 mm).

Cat. No.	Mfr. No.	Description	Qty.
T1370-13	99447-13	13 x 100 mm	1,000/cs
T1370-16	99447-16	16 x 125 mm	1,000/cs



### Flat-Bottom Transport Tubes

**INNOVA** - These unprinted transport tubes are made of clarified polypropylene and designed to fit AxSYM®, Olympus® and Roche® modular systems. Each tube is supplied with a white polyethylene snap cap.

Cat. No.	Mfr. No.	Description	Qty.
012V-W	012V-W	16 x 100 mm transport tube with cap	2,000/cs



### Round-Bottom Transport Tubes

**INNOVA** - These unprinted 10 mL transport tubes are made of clarified polypropylene. Tube P010AXSN-3 is supplied without a cap and is designed to fit AxSYM®, Olympus® and Roche modular systems. Plug-style cap 6SNC-WA is made of white polyethylene is designed to fit tube P010AXSN-3.

Cat. No.	Mfr. No.	Description	Qty.
P010AXSN-3	010AXSN-3	Without cap, 16 x 77 mm	3,000/cs
6SNC-WA	6SNC-W	Plug-style cap, white	100/bg, 20 bg/cs





# Test Tubes and Closures

## Test Tubes

### Transport Tubes

INNOVA - These tubes are made of either polypropylene or polystyrene and are supplied without caps. Choose from tubes with or without molded graduations.

Cat. No.	Mfr. No.	Description	Qty.
<b>12904-2010</b>	12X75EG	Polypropylene, with graduations	2,500/cs
<b>12X75EG1</b>	12X75EG1	Polystyrene, with graduations	2,500/cs
<b>13100PP</b>	13X100	Polypropylene, without graduations	1,000/cs
<b>13100PS</b>	13X1001	Polystyrene, without graduations	1,000/cs
<b>12X75ESNCW</b>	12X75ESNC-W	Plug style cap for 12X75EG, White	4,000/cs

### Multi-Purpose Test Tubes

STOCKWELL - Precision-molded from premium-grade plastics and ideal for routine laboratory analysis and procedures. These tubes are rigorously inspected to ensure they surpass exacting specifications. Ideal for a wide range of laboratory applications. Available in several sizes, and from two materials, to meet a variety of needs.

- All of the tubes are plastic (polystyrene or polypropylene), thus preventing the problem of broken glass
- Polypropylene is chemically-resistant, autoclavable and virtually unbreakable
- Polystyrene is clear like glass

Note that caps are ordered separately. These tubes are not available sterile.

Cat. No.	Mfr. No.	Description	Qty.
<b>Polystyrene tubes</b>			
<b>8561</b>	8560	12 x 75 mm - 5 mL round bottom (PS) - clear	250/bg, 8 bg/cs
<b>T1227-24</b>	8553	16 x 75 mm - 11 mL round bottom (PS) - clear	500/bg, 2 bg/cs
<b>Polypropylene tubes</b>			
<b>8554</b>	8554	16 x 75 mm - 11 mL round bottom (PP) - natural	500/bg, 2 bg/cs
<b>8584</b>	8584	16 x 100 mm - 14 mL round bottom (PP) - natural	500/bg, 2 bg/cs

### Disposable Plastic Transport Tubes

STOCKWELL - These transport tubes are ideal for rapid sample collection when a plug cap is needed. They also work well in Olympus automated testing equipment. Use with Stockwell Scientific 8589 caps or 8558 caps.

Cat. No.	Mfr. No.	Description	Qty.
<b>ST8577</b>	8577	Polystyrene, conical bottom - 10 mL capacity	250/bg, 4 bg/cs

### Transport Vials

STOCKWELL - These conical transport vials are ideal for safe transit as well as sample collection and storage. Made from virgin polypropylene, they feature freestanding units, graduation markings for accurate reference and side write-in areas for labeling. Vials also feature a screw cap with molded-in sealing ring for a leak-resistant fit.

Cat. No.	Mfr. No.	Description	Qty.
<b>5 mL transport vial</b>			
<b>3205R</b>	3205	Natural tube with white cap - nonsterile	250/bg, 4 bg/cs
<b>10 mL transport vials</b>			
<b>3210B</b>	3210B	Natural tube with blue cap - nonsterile	250/bg, 4 bg/cs
<b>3210R</b>	3210	Natural tube with white cap - nonsterile	250/bg, 4 bg/cs
<b>3211R</b>	3211	Natural tube with white cap - sterile	25/bg, 20 bg/cs

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