Laboratory Products for the Brewing Industry

WEBER SCIENTIFIC

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Laboratory Products for the Brewing Industry
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Discover why Weber Scientific is a favorite supplier to the brewing industry.

Weber Scientific distributes laboratory supplies and equipment throughout North America and is focused on the specialized testing needs of the food and beverage industries.

This 47-page Brewing Industry Catalog features some of our most popular products for the brewer's lab. You'll find many more specialized products by browsing our extensive online buyer's guide at weberscientific.com. And if you can't find what you're looking for? No problem…let us know! We welcome the opportunity to quote on your special requests.

- *Legendary for great prices.* We offer some of the best prices in the industry without any of the dickering or hassles and without committing to any complicated or long-term contracts.
- *Free freight upgrades.* Receive expedited service nationwide at our expense – not yours.
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Weber Scientific 2017-18 Catalog

Be certain to request your FREE copy of this essential 265-page Buyers Guide dedicated to Food, Beverage and Water Testing Equipment and Supplies.

To request your FREE copy …

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ATP TESTING

EnSURE™ Multi-Parameter Luminometer (Hygiena)

One instrument for multiple quality tests…

- **Coliform Detection** (with Micro-Snap™)
- **ATP Hygiene Monitoring**
- **Allergen Control**

- **Rapid results**
  - 15 seconds for ATP
  - 7 hours or less for microbes
- **Sensitive detection levels**
  - To 0.1 femtomoles of ATP with Supersnap
  - To 1-5 CFU for microbes
  - 2X more sensitive than systemSURE PLUS

- **Memory capacity**
  - 100 test plans
  - 2000 user IDs
  - 5000 test locations

Key Design Features:

- Protected USB connection so no moisture can get into the system.
- Removable read chamber design allows for easy cleaning.
- Large viewable screen with backlight.
- Durable case is designed for use in the harshest environments and internal solid state detector is not affected by drops or shakes.
- Sealed keypad is splash proof and can withstand the toughest of users.
- Runs on 2 x AA batteries.
- 7 button keypad is easy to navigate for any user.
- Complete with stand and protective carrying case.

SystemSURE Plus™ Sanitation Monitoring System (Hygiena)
Specifically for ATP Hygiene Monitoring

- Detects to 1.0 femtomoles of ATP
- Has most of the other features as the EnSURE instrument for ATP analysis
- One year warranty

Item No.	Mfr Item No.	Description	Qty Break	Your Cost
3661-72	ENSURE	EnSURE	1	**1451.00**
		Luminometer	2+	**1250.00**
3661-80	SS3	SystemSURE Plus	1	**1305.00**
			2+	**1187.50**

ATP Hygiene Monitoring Swabs (Hygiena)

All-in-one test which detects low levels of ATP (Adenosine Triphosphate)

SuperSnap™ is super sensitive.

- Used predominantly in food & beverage processing facilities as an allergen cross-contamination prevention tool or when dealing with difficult samples

- By incorporating SuperSnap into a prevention program, risks and issues are recognized in real time and immediate corrective action and preventative measures can be implemented before product overlays occur.

- Identify food residues at extremely low levels
  o Pre-moistened swab bud breaks through biofilms
  o Detects very small amounts of ATP and organic residues
  o Suitable for allergen monitoring – detects residues at levels down to 0.1 femtomoles of ATP when used with EnSURE monitoring system
  o SuperSnap is comparable to ELISA and lateral flow allergen specific tests

Ultrasnap™ offers high sensitivity and is very cost effective.

- Detects to 0.1 femtomoles of ATP with EnSURE
- Detects to 1 femtomoles of ATP with SystemSure Plus

Features of SuperSnap and Ultrasnap

- All-in-one test devices
- Pre-wetted swab
- Liquid stable reagent
- More resistant to sanitizer affect
- Write-on swab label
- 12 months at refrigerated temperature of 35-46°F (2-8°C) – 4 weeks at room temperature of 70-77°F (21-25°C)

Benefits of SuperSnap and Ultrasnap

- Ready-to-use and convenient
- Simple, easy-to-use and interpret
- Consistent sample collection
- Maximum sample recovery
- More resistant to harsh chemical sanitizers
- More resistant to challenging product residues and production environments at extreme pHs

Item No.	Mfr Item No.	Description	Qty	Qty Break	Your Cost
3661-76 ❄	SUS300	SuperSnap	case/100	1	**232.00**
				2+	**215.00**
3661-75 ❄	US2020	Ultrasnap	case/100	1	**203.00**
				2+	**193.00**
3661-91	PCD4000	Positive/Negative Control Set	each		**250.00**
3661-92 ❄	CK25	Positive Control Kit	pack/25	1	**86.75**
				2+	**73.85**
3661-87	SSCC03	Swab Cooler	each		**35.00**

ATP TESTING

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AquaSnap™ Total and Free ATP Water Test (Hygiena)

Sensitive Water Quality Analysis in 15 Seconds

AquaSnap Total measures both free ATP in solution and microbial ATP. The device contains a detergent to release ATP that is bound to microbial or organic matter and inside microbes. AquaSnap is easy to use, economical, and gives real time results. The specifically designed dipper tip collects 100 μl of water ensuring consistent sample collection.

AquaSnap Free measures ATP that is free in solution. The difference between Total and Free ATP provides a measure of microbial contamination in the sample.

Benefits:
• Ready-to-use out of box
• Easy-to-use and reduces user variation
• Patented design produces repeatable and accurate results
• Tolerant to temperature abuse and sanitizers
• All-in-one test device with collection dipper tip
• Consistent sample collection (100 μl) over swab or sponge tip test
• Liquid-stable chemistry eliminates the need to reconstitute a pellet, giving more accurate results with less variation
• True and accurate results at low RLU levels
• Reliable trending at low ATP and low RLU levels
• Low carbon foot print (recyclable)

Specifications:
• Shelf life: 15 months at refrigerated temperatures (2-8ºC), 4 weeks room temperature (21-25ºC)
• Compatible Luminometers: EnSURE, SystemSURE Plus

Item No.	Description	Mfr. Item No.	Qty	Qty Break	Your Cost
3661-95	Total ATP	AQ-100X	pack/100	1	**226.00**
				2+	**210.00**
3661-96	Free ATP	AQ-100FX	pack/100	1	**226.00**
				2+	**210.00**

Q-Swab™ Environment Sample Collection Device (Hygiena) ⑤

Identical to 3M Quick Swab at enormous savings!

Q-Swab is a ready-to-use sample collection and delivery device for environmental surface sampling. Simply collect an environmental sample and snap the bulb at the top of the device to release 1mL of media into the sample. The media neutralizes residual sanitizers and facilitates recovery of bacteria*. A variety of different medias are available depending on bacteria of concern. After activation, the sample is ready to be poured onto sample-ready media film or streaked onto plates for culturing. Q-Swab can be used either wet or dry to sample surfaces.

Benefits:
• Environmental microbial sample collection and transport
• Saves money and time - no need to prepare broths or use pipettes
• Neutralizes residual sanitizers remaining on surface

Specifications:
• Aseptically filled and gamma irradiated
• All-in-one sample collection system
• 1mL fill of broth - perfectly hydrates 1 dried media film plate
• Q-Swab (Letheen Broth) devices do not contain bi-sulfites. They do contain other ingredients like Lecithin that neutralizes certain quarternary ammonium compounds (sanitizers) and Tween 80 that also neutralizes phenolic disinfectants.
• Shelf life: 12 months at refrigerated temperatures (2-8 ºC)

Item No.	Medium	Mfr. Item No.	Qty	Qty Break	Your Cost
3663-03	Buffered Peptone water	QS1000	pack/250	1	**229.00**
				2+	**206.25**
3663-15	Letheen universal neutralizing medium	QS1200	pack/250	1	**229.00**
				2+	**206.25**

PRO-Clean™ Rapid Protein Food Residue Test (Hygiena) ⑤
Validate surface cleanliness without instrumentation

A quick and easy way to accurately monitor the cleanliness of food equipment surfaces to help ensure food safety and product quality. This test detects any protein residues left on a surface after cleaning. Simply swab a surface, release the reagent and if any residue containing protein is present the reagent will turn purple. The color change provides a semi-quantitative measure of the surface cleanliness. The more contamination present, the quicker the color changes to purple and the darker the color. PRO-Clean almost instantly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary. Recommended for food retail, processing and service.

Key Features and Benefits:

• Results in under 10 minutes with most color changes taking place in under 60 seconds
• All-in-one device - no instrumentation
• 12 month shelf life at refrigerated temperatures
• Easy to interpret
• Affordable
• Excellent for employee training and feedback
• Provides HACCP/SSOP verification
• Pinpoints deviations in sanitation procedures

Item No.	Qty	Qty Break	Your Cost
3660-70	pack/100	1	**195.00**
		2+	**175.00**

WEBER EXCLUSIVE   ⑤ SAMPLE AVAILABLE   FIRST CASE UPGRADE   Ⓗ HAZARDOUS MATERIALS   ❄ SHIPS ON ICE

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MICROSCOPY

2003-12   2003-14   2003-20   2003-30   2003-50

Economy Clinical Microscopes (VanGuard)

- Introductory Level
- Magnification Up to 100X
- Iris Diaphragm Condenser
- 10X WideField eyepieces

Brightfield Compound Microscopes (VanGuard)

Precision grade laboratory quality and advanced features at an affordable price. These models have a reverse nose pitch objective turret, and ultra low position stage controls. Optical tube features multiple-coated transmission prism system. Spare lamp, and fuse included. Five year warranty.

	Economy Clinical Microscopes		Brightfield Compound Microscopes		
Item No.	**2003-12**	**2003-14**	**2003-20**	**2003-30**	**2003-50**
Objectives	Achromatic (DIN) 4X, 10X, 40X, 100X (Oil)	Achromatic (DIN) 4X, 10X, 40X, 100X (Oil)	semi-planachromatic 4X, 10X, 40X 100X (oil immersion)	infinity-corrected planachromatic 4X, 10X, 40X 100X (oil immersion)	infinity-corrected planachromatic 4X, 10X, 40X 100X (oil immersion)
Eyepieces	10X WideField (DIN); 18 mm F.D	10X WideField (DIN); 18 mm F.D.	10x super wide field; focal length 25 mm; field number 18	10x super wide field; focal length 25 mm; field number 20 high eye point	10x super wide field; focal length 25 mm; field number 20 high eye point
Viewing head	Binocular	Binocular	Binocular	Binocular	Trinocular
	45° Inclination; 360° Rotatable	30° Inclination; 360° Rotatable	Seidentopf head with diopter adjustment of –5 to +5 and interpupillary adjustment of 55mm to 75mm to decrease eyestrain		
Nosepiece	Quadruple	Quadruple	Quadruple	Quadruple	Quintuple
	4-Position with Positive Stops	4-Position; Reverse Pitch	reversed, ball-bearing nosepiece with positive stops, knurled gripping, and high grade lubricant		
Stage	120 x 120 mm	135 x 125 mm	125mm X 135mm	260 X 170	260 X 170
	Mechanical; Drop-Down, Left-Hand X-Y Controls; 60 x 25 mm Cross Travel Range	Mechanical; Drop-Down, Right-Hand, Rack & Pinion X-Y Control, 70 x 30 mm Cross Travel Range	graduated mechanical stage with ultra low position coaxial controls		
Condenser	1.25 N.A. Abbe; Iris Diaphragm; Swing-Out Filter Holder; Focusable with Forward-Positioned Lever	1.25 N.A. Abbe; Iris Diaphragm; Swing-Out Filter Holder; Rack & Pinion Focusing Control	1.25 N.A. Abbe condenser with iris diaphragm, easy centering with adjusting screws, rack and pinion substage with swing-in filter holder		
Substage	LED	20 W Variable Quartz Halogen; Field Diaphram for Koehler	6V 20W variable quartz halogen illumination system		
Construction	Cast-Metal with Stain-Resistant Enamel Finish	Stain-Resistant Enamel Finish	durable cast aluminum alloy frame with enamel finish and black handrests; stable 180mm x 210mm base fitted with anti-skid rubber feet		
Warranty	5-Year Optical/Mechanical; 1-Year Electrical	5-Year Optical/Mechanical; 1-Year Electrical	5-Years		

Item No.	Mfr Item No.	List Price	% Off List	Your Cost
2003-12	1113AML	675.00	30	**472.50**
2003-14	1421BRI	850.00	30	**595.00**
2003-20	1221CM	1210.00	30	**847.00**
2003-30	1421BRI	1735.00	30	**1214.50**
2003-50	1431BR	1825.00	30	**1277.50**

MANY MORE ITEMS AVAILABLE AT

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MICROSCOPY

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Microscope Slides, Disposable

Ready to use -- does not require preliminary washing. These slides are cut and ground in a carefully controlled environment that eliminates sticking because each slide is pre-cleaned four separate times. Frosted one end, one side for easy marking with pen or pencil. Dimensions: 1.0 mm thick, 1" X 3".

Item No.	Qty	List Price	% Off List	Qty Break	Your Cost
2011-00	pk/144	40.76	50	1-9	20.38
			55	mult. of 10	18.34

#1 Cover Glasses

High quality optical glass. Standard 22 X 22 mm size. Thickness 0.13 to 0.17 mm.

Item No.	Qty	List Price	% Off List	Qty Break	Your Cost
2012-25	1 oz/pk	23.50	50	1-9	11.75
			62	mult. of 10	8.93

170 pieces of cover glass = 1 oz

Lens Paper
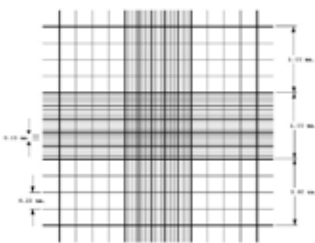
100% lint free. 4" X 6". Available: pad of 50 sheets.

Item No.	List Price	% Off List	Qty Break	Your Cost
2033-04	2.60	20	1-9	2.08
		40	10+	1.56

Hemocytometer for Cell Counting

ASBC Method for microscopic yeast cell counting

An H-shaped moat form two counting areas, or plateaus. A "V" slash reduces the possibility of overflow.

Cell Depth: 0.100mm +/- 2% (1/10mm)
Volume: 0.1 Microliter
Ruling Pattern: Improved Neubauer, 1/400 Square mm
Rulings cover 9 square millimeters. Boundary lines of the Neubauer ruling are the center lines of the groups of three. The central square millimeter is ruled into 25 groups of 16 small squares, each group separated by triple lines, the middle one of which is the boundary. The ruled surface is 0.10mm below the cover glass, so that the volume over each of the 16 small squares is .00025 cubic mm.

Item No.	Description	Qty	Your Cost
3048-12	Hemocytometer	each	115.00
3048-13	Cover slips for hemocytometer	10/pack	30.69

Methylene Blue 1% Stain

Widely used for many general staining procedures.

Item No.	Size	Your Cost
3047-03	500 mL	24.47

Gram Stain Kit
(BD Diagnostics)

All the components needed for performing one of the most basic tests in microbiology: the Gram stain test for categorizing bacteria as gram-negative or gram-positive. Contains one 250 ml bottle each of Gram Iodine, Crystal Violet, Safranin and Decolorizer.

Item No.	Qty/pk	List Price	% Off List	Your Cost
2004-78	4-step four 250 mL bottles (with stabilized Gram Iodine, Crystal Violet, Safranin and Decolorizer)	58.97	10	53.07

Gram Stain Replacement Components

(BD Diagnostics)

	Item No.	Mfr Item No.	Description	Qty/pk	Your Cost
H	2004-80	212527	Decolorizer	4 X 250 mL	51.66
H	2004-82	212525	Crystal Violet	4 X 250 mL	57.66
H	2004-84	212531	Safranin	4 X 250 mL	54.11
	2004-87	212542	Iodine, stabilized	4 X 250 mL	63.46

Gram Stain Kit

Contains one 8 oz. (250 mL) flip-top bottle each of 1% Crystal Violet, Gram's Iodine, 0.4% Safranin, 25% Acetone/Alcohol.   Flip-top caps are packed separately in the box for secure transit.

Item No.	Your Cost
2004-50	38.81

Hand Tally Counter

4-digit unit records up to 9999. Zero reset knob. Rugged heavy-duty chrome finished case with hinged finger loop.

Item No.	List Price	% Off List	Qty Break	Your Cost
3045-05	38.93	76	1-4	9.34
		81	5+	7.40

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BACTERIOLOGICAL TESTING

Captair® Smart Ductless Filtering Fume Hoods (Erlab)

Guarantees that the emissions concentration at the filter exhaust will always be lower than 1% of the Threshold Limit Value (TLV)

Your Safety is Guaranteed!
- Erlab ductless enclosures provide total filtration of toxic gases, fumes, odors, and powders
- Automatic filter breakthrough alarm
- Provides a published chemical listing with the retention capacity for all filters
- Evaluation and approval of the chemical handlings performed in the hood
- A Certificate of Validation verifying the chemical usage, filter type, and filter lifetime
- Free ESP® validation program for the life of your installation

Reduces Costs
- No ductwork necessary, your unit is up and running in minutes
- Installs completely without tools
- Completely mobile and easy to relocate within your lab or to a new building
- Eliminates the energy consumption linked to the air renewal
- Very low energy consumption ranging from 70W to 261W

Many models and configurations to choose from
Covers a wide range of sizes and configurations
- Ductless fume hoods (shown is model M321 with a cost of around $3,000)
- Vented storage cabinets
- HEPA filtered enclosures
- NEW Halo laboratory air filtration system

How it works

These enclosures are equipped with filtration technology that is specific to the type of chemicals handled. These filters capture toxic molecules and particles evaporated in the hood.

1 - Air from the laboratory enters the hood. The air face velocity creates a dynamic barrier between the user and the chemicals being handled.

2 - The device ventilation system draws the particles and any molecules toward the filtration system. The hood prevents any pollutants from being released into the laboratory.

3 - The discharged air is free from all pollutants.

4 - The continuous recirculation of the filtered air helps to purify the ambient air of the laboratory.

5 - Flex Technology offers the ability to stack carbon and HEPA filters allowing the filtration column to be configured specifically for the applications carried out within the hood.

Laminar Flow Hoods available at weberscientific.com

esp® The Erlab Safety Program:
As part of our commitment to you, every Erlab product includes these services.

Valiquest Determine the most appropriate filtration product for total safety during your processes

Valipass Certify and secure the usage of the unit(s) at installation

Valiguard Work with you to be sure your unit(s) is at peak operating performance

eGuard App Enhance your safety with our remote mobile solutions

Item No.	Mfr. Item No.	Description	Dimensions (W x D x H) inches	Your Cost
4013-02	321SMART	Fume Hood	Ext. 31 1/2 x 24 3/8 x 43 3/4 Min. 50 5/8 Max	3399.00
4013-03	391SMART	Fume Hood	Ext. 39 5/8 x 24 3/8 x 43 3/4 Min. 50 5/8 Max	4099.00
4013-04	481SMART	Fume Hood	Ext. 49 5/8 x 24 3/8 x 43 3/4 Min. 50 5/8 Max	5149.00
4013-06	392SMART	Fume Hood	Ext. 39 5/8 x 29 1/2 x 52 3/4 Min. 59 5/8 Max	5499.00
4013-07	483SMART	Fume Hood	Ext. 51 x 29 1/2 x 52 3/4 Min. 59 5/8 Max	6499.00
4013-08	633SMART	Fume Hood	Ext. 63 3/4 x 29 1/2 x 52 3/4 Min. 59 5/8 Max.	7449.00
4013-09	714SMART	Fume Hood	Ext. 71 5/8 x 29 1/2 x 52 3/4 Min. 59 5/8 Max	8899.00
4013-21	SMART321GL	Accessory - 321 Smart Glass Work Surface		189.00
4013-22	SMART391GL	Accessory - 391 Smart Glass Work Surface		239.00
4013-23	SMART481GL	Accessory - 481 Smart Glass Work Surface		289.00
4013-25	SMART392GL	Accessory - 392 Smart Glass Work Surface		269.00
4013-26	SMART483GL	Accessory - 483 Smart Glass Work Surface		309.00
4013-27	SMART633GL	Accessory - 633 Smart Glass Work Surface		409.00
4013-28	SMART714GL	Accessory - 714 Smart Glass Work Surface		469.00
4013-34	SMART391MOBI	Accessory - 391 Smart Mobile Cart		929.00
4013-36	SMART481BENCH	Accessory - 481 Smart Benchcap		949.00
4013-38	SMART392BENCH	Accessory - 392 Smart Benchcap		929.00
4013-39	SMART483BENCH	Accessory - 483 Smart Benchcap		979.00
4013-40	SMART633BENCH	Accessory - 633 Smart Benchcap		1029.00
4013-41	SMART714BENCH	Accessory - 714 Smart Benchcap		1279.00
4013-15	GF4.AS	Carbon Filter - Organics		463.00
4013-16	GF4.BE+	Carbon Filter - Organics and Acids		699.00
4013-17	GF4.HP	HEPA Filter		473.00

Beer Culture Media

Culture Media for the Brewing Industry
For the cultivation of microorganisms of significance

Choose from a wide selection including UBA, WL Nutrient and Differential, Barney Miller and many more.

Description	Brand	Qty	Mfr Item No.	Weber Item No.	List Price	% Off List	Your Cost
Bacteriological Agar	Alpha Biosciences	500 gram	A01-102	3116-12	152.19	50	76.10
Barney Miller Agar	Alpha Biosciences	500 gram	B02-125	3116-20	189.58	30	132.71
For detection of beer spoilage organisms.	Alpha Biosciences	2 Kg	B02-125	3116-21	663.28	30	464.30
Crystal Violet Stock Solution		100 ML		3118-12			9.95
For use with Lin's Wild Yeast Medium (LWYM) Item# 3118-11							
Cycloheximide Crystals	Ameresco	5 gram	94271-5G	3118-61			116.29
Ultra pure media antibiotic	Ameresco	1 gram	94271-1G	3118-60			52.18
HLP Medium (Hsu's Lactobacillus and Pediococcus Medium)	Weber	500 gram		3118-05	129.30	20	103.44
Allows for the detection of Lactobacillus and Pediococcus species, while restricting the growth of culture yeast.							
LCSM (Lin's Cupric Sulfate Medium)	Weber	500 gram		3118-08	252.50	30	176.75
For detection and quantitative determination of wild yeast populations in brewing culture yeast.							
LWYM (Lin's Wild Yeast Medium)	Weber	500 gram		3118-11	252.50	30	176.75
For detection and quantitative determination of wild yeast populations in brewing culture yeast.							
MacConkey Agar	BBL	500 gram	211387	3087-23	90.05	15	76.54
	Alpha Biosciences	500 gram	M13-106	3116-47	64.68	30	45.28
Malt Extract Agar	Difco	500 gram	211220	3087-26	122.56	15	104.18
Isolating, cultivating and enumerating yeasts and molds.	Alpha Biosciences	500 gram	M13-113	3116-51	94.29	30	66.00
MRS Agar	Difco	500 gram	288210	3097-43	113.66	15	96.61
Isolation and cultivation of Lactobacilli.	Alpha Biosciences	500 gram	L12-103	3116-36	82.96	50	41.48
Nutrient Agar	Difco	500 gram	213000	3095-48	130.80	15	111.18
Cultivation of microorganisms.	Alpha Biosciences	500 gram	N14-100	3116-53	100.86	50	50.43
	Alpha Biosciences	2 Kg	N14-100	3116-54	366.79	50	183.40
	Criterion	500 gram	C6461	3113-80	101.97	38	63.22
LMDA (Lee's Multi-Differential Agar) AKA SDA/LMDA (Schwarz Differential Agar/Lee's Multi-Differential Agar)	Weber	500 gram		3118-17	144.50	20	115.60
Used for the detection and enumeration of yeast and bacteria in the beer.							
Universal Beer Agar	Difco	500 gram	285610	3097-60	119.22	20	95.38
Cultivation of microorganisms significant	Alpha Biosciences	500 gram	U21-100	3116-26	92.98	30	65.09
in the brewing industry	Alpha Biosciences	2 Kg	U21-100	3116-27	354.81	30	248.37
WL Differential Agar For use in the isolation of bacteria encountered in brewing and industrial fermentation processes.	Criterion	500 gram	C7291	3115-81	91.74	30	64.22
WLD Medium (Wallerstein Laboratories Differential Medium)	Weber	500 gram		3118-20	65.00	44	36.40
For selective isolation and enumeration of bacteria encountered in breweries and industrial fermentations.							
WL Nutrient Agar	Alpha Biosciences	500 gram	W23-102	3116-28	36.51	35	23.73
For the cultivation of yeasts, molds and bacteria encountered in brewing and fermentation processes	Alpha Biosciences	2 Kg	W23-102	3116-29	132.71	35	86.26
Wort Agar	Difco	500 gram	211671	3097-85	121.62	15	103.38
Cultivation and enumeration of yeasts							
Yeast Extract	BBL	454 gram	211929	3092-70	129.14	15	109.77
Provides a maximum of nutrients for bacterial growth.	Alpha Biosciences	500 gram	Y25-101	3116-81	73.12	60	29.25

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BACTERIOLOGICAL TESTING

NBB® Prepared Culture Media for Beer (Döhler)

Ready-to-use agar or broth

HARD TO FIND ITEM!

- Excellent identification of beer spoilage organisms
- Use with filtered or unfiltered beer and yeast culture
- Fast results – optimized nutrient combinations for fast growth of spoiling micro-organisms
- Simple screening – Simple and reliable visual control through a clear change in the indicator color from red to yellow, for easy quantitative and qualitative analysis in almost any NBB® culture media
- Increased selectivity – Inhibition of the harmless accompanying flora and culture yeast necessary for the brewing process for optimized detection of beverage-spoiling micro-organisms

Suitable for detection in:

- unfiltered beers containing yeast
- filtered beers
- yeast samples
- water and rinsing water
- airborne bacteria collection samples
- swab samples for hygiene monitoring

Detection of spoiling micro-organisms in all types of beer samples, such as Lactobacilli, Pectinatus and Megasphaera. Get clear, fast and reliable detection, even for a very low level of contamination in a large sample volume.

NBB uses special growth promotion components and nutrients optimally tailored to beer spoiling micro-organisms. Döhler exclusively uses raw materials of non-animal origin, thus eliminating the risk of animal materials entering the beer quality control process. A series of comprehensive functional tests examine the quality of the NBB culture media with a special panel of test strains, which were all isolated in breweries.

NBB-A, Agar

Solid agar medium for pouring agar plate after simple liquefaction.

- Can be used for membrane filtration, swab and pour plate method as well as for airborne micro-organism collection
- Simple, visual screening by means of an indicator change from red to yellow

NBB-B, Broth

Liquid culture media with indicator dye for detection of beer spoiling micro-organisms in yeast samples or as an enrichment medium.

- Direct use of liquid medium
- Simple, visual screening by an indicator change from red to yellow

NBB-C, Concentrated Broth

Liquid culture medium with enhanced selectivity through the addition of yeast-cloudy beer samples.

- Simply added to the beer sample for analysis
- Final microscopic inspection, no indicator verification

NBB-B-AM, Broth

Liquid culture medium for detection of indicator bacteria from biofilms.

- Simple hygiene monitoring for weak point analyses and trending
- Sampling by means of smear swabs at critical points throughout the production process
- Direct use of liquid medium - ready-to-use in sterile tubes or sterile bottle for individual portioning
- Simple, visual screening by means of an indicator change from red to yellow

Specifications

pH:	5.8 ± 0.2 (6.4 ± 0.2 for NBB-C)
Incubation temperature:	25-28°C (77-83°F)
Incubation time:	5 days
Storage temperature:	4-8°C (39-46°F)
Shelf life from date of manufacture:	1 year

Item No.	Mfr Item No.	Description	Qty.	Your Cost
3118-75	2.04709.782	NBB-A Glass Bottles	9 x 250 mL	102.65
3118-76	2.04710.782	NBB-B Glass Bottles	9 x 250 mL	101.00
3118-77	2.04723.646	NBB-B Glass Tubes	20 x 10 mL	34.45
3118-78	2.04711.782	NBB-C Glass Bottles	9 x 250 mL	109.30
3118-79	2.04716.462	NBB-P Powder, Bagged	300 gram	135.95
3118-80	7.85420.782	NBB-PCR Glass Bottles	9 x 250 mL	115.50
3118-81	2.11753.244	Brewers QCheck® Kit		139.35
		LMC (Lactose Peptone Concentrate) Glass Bottles	2 x 50 mL	
		NBB-B Glass Tubes	20 x 10 mL	
		NBB-B-Am Glass Tubes	20 x 10 mL	
		Swabs, Individually Wrapped	30	
3118-82	2.04706.782	NBB-B-Am Glass Bottles	9 x 250 mL	101.00
3118-83	2.04706.646	NBB-B-Am Glass Tubes	20 x 10 mL	34.45

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Disposable Petri Dish

An outstanding value for a truly "industry standard" top-quality culture dish. 100% sterility guaranteed. Excellent optical clarity with no cracks or stress marks. Heavyweight. Consistently flat bottoms with no more than 0.005" off flat from edge to center. Excellent packaging.

Item No.	Nominal Size	Description	Qty	Qty Break	Your Cost
3050-00	100 X 15 mm (83 mm diameter)	Semi-Stackable 25 sleeves/20 units each	case/500	1-9	**55.71**
				10-19	**52.19**
				20+	**50.64**
3050-20	100 X 15 mm (83 mm diameter)	Fully Stackable 25 sleeves/24 units each	case/600	1-9	**66.85**
				10-19	**62.62**
				20+	**60.77**
3050-10	100 X 15 mm (83 mm diameter)	Slippable 25 sleeves/ 20 units each	Case/500	1-9	**55.71**
				10-19	**52.19**
				20+	**50.64**
3050-11	100 X 15 mm (83 mm diameter)	I-plate (2 sections) Slippable	Case/500	1-9	**75.76**
				10+	**70.35**
3050-25	100 X 10 mm (83 mm diameter)	Space Saver Semi-Stackable 25 sleeves/ 30 units each	Case/750	1-9	**83.79**
				10-19	**78.69**
				20+	**74.33**
3051-10	150 X 15 mm (136 mm diameter)	Slipable 5 sleeves/20 units each	case/100	1-15	**56.05**
				16+	**43.87**
3051-15	60 X 15 mm (54 mm diameter)	Fully Stackable 25 sleeves/20 units each	case/500	1-19	**64.74**
				20+	**54.65**

MANY MORE ITEMS AVAILABLE AT
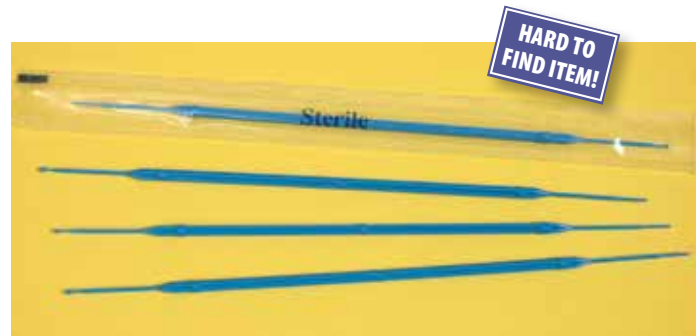
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Sterile Inoculating Loops (Copan)
Color-coded and choice of rigid or flexible

Highly accurate sterile calibrated loop reverses to convenient streaking needle, perfect for picking off colonies or making stab inoculations. Choice of rigid or flexible color-coded loops. Hexagonal loop shaft improves grip and makes diluting and streaking easy. Painstakingly manufactured so a correct size droplet is formed and transferred without leaving liquid behind. Evans Blue Dye Certification of Calibration is supplied with every case. Loops are packed in tamper proof, zip-lock bags. 25 loops per bag, 1000 loops per pack.

Item No.	Discription	Size	List Price	% Off List	Qty Break	Your Cost
2023-15	Rigid dark green inoculating loop	1 µL/0.001 mL	93.70	19	1	**75.90**
				28	2+	**67.46**
2023-20	Rigid dark blue inoculating loop	10 µL/0.01 mL	93.70	19	1	**75.90**
				28	2+	**67.46**
2023-25	Flexible light green inoculating loop	1 µL/0.001 mL	93.70	19	1	**75.90**
				28	2+	**67.46**
2023-35	Flexible light blue inoculating loop	10 µL/0.01 mL	93.70	19	1	**75.90**
				28	2+	**67.46**

HARD TO FIND ITEM!

Sterile Inoculating Loops

Standard rigidity. Sterile individually wrapped plastic loops eliminate the need for flaming. Highly accurate calibrated loop reverses to convenient streaking needle. Color coded.

Item No.	Size	Qty	Color code	List Price	% Off List	Qty Break	Your Cost
2023-05	0.001 mL / 1 µl	pk/500	blue	85.35	15	1	**72.55**
					25	2+	**64.01**
2023-06	0.001 mL / 1 µl	pk/250	blue	74.48	60	1-3	**29.79**
					66	4+	**25.32**
2023-10	0.01 mL / 10 µl	pk/500	yellow	85.35	15	1	**72.55**
					25	2+	**64.01**
2023-11	0.01 mL / 10 µl	pk/250	yellow	74.48	60	1-3	**29.79**
					66	4+	**25.32**

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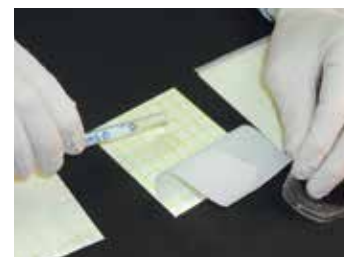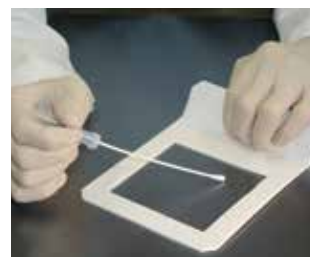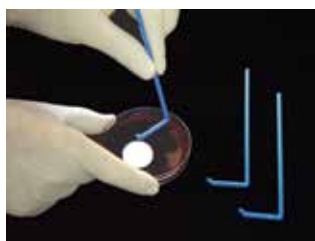
Sterile T-Shaped Cell Spreaders

Plastic spreaders are designed for spreading and dispersing liquids across the surface of agar culture plates. Smooth rounded surfaces prevent any cutting or gouging of agar during inoculation of culture plates. The T-shape design facilitates that even pressure is applied across the entire length of the T-bar in contact with the agar surface. 10 spreaders per peel pouch, 500 spreaders per case.

Item No.	List Price	% Off List	Qty Break	Your Cost
3044-55	85.00	40	1-2	**51.00**
		45	3+	**46.75**

Sterile Bacterial Cell Spreader

Sterile Lazy-L-Spreaders™ feature a L-shaped design for convenient spreading – turn the petri dish 360º to provide a smooth and even distribution. A smooth spreading surface with a slight upward return reduces the likelihood that the spreader will dig into the agar. Polystyrene. Individual spreader is 5 3/4"/145 mm high with a 1 1/4"/ 32 mm long spreading surface.

Item No.	Qty	List Price	% Off List	Qty Break	Your Cost
3044-48	pack/500	77.00	40	1-2	**46.20**
	sterile; pouches of 10		45	3+	**42.35**
3044-50	pack/500; ind. wrap.	89.00	25	1-2	**66.75**
			30	3+	**62.30**

Q-Swab™ Sample Collection Devices (Hygiena)
Identical to 3M Quick Swab at enormous savings!

A sterile swab at the end of a 4 1/4" shaft comes attached to a cap containing a reservoir of 1 mL of transport media, and is enclosed in a clear plastic sheath. Using patented snap-valve technology, you simply swab the surface to be tested, place the swab back into the holder, snap the integrated valve, squeeze the bulb to wash the liquid media over the swab, and return the swab to the sheath for transport to the laboratory. You can then pour the 1 mL aliquot into a dish or tube for culturing. Available in a pack of 250.

Item No.	Medium	Qty Break	Your Cost
3663-03	Buffered Peptone water	1	**229.00**
		2+	**206.25**
3663-15	Letheen universal neutralizing medium	1	**229.00**
		2+	**206.25**

Disposable Transfer Pipets

Extremely popular and a superb value.

These popular graduated pipets offer safety and convenience for many liquid transfer applications. This single unit design features a built-in pipet bulb and molded-in graduations. Made of inert, non-toxic low density polyethylene. Sterile pipets are individually wrapped.

Item No.	Description	Bulb Draw mL	Drops /mL	Overall Length inches/mm	Grad. mL	Grad. Intvl. mL	Qty	List Price	% Off List	Qty Break	Your Cost
3017-20	Wide stem; non-sterile	3.5	25	6 / 150	3	0.5	pk/500	25.45	36	1-9	**16.29**
									44	Multi. of 10	**14.25**
3017-18	Wide stem; Sterile	3.5	21	6.3 / 160	3	0.5	pk/500	67.30	50	1-4	**33.65**
									54	5-9	**30.96**
									57	Multi. of 10	**28.94**
3017-11	Wide stem; Sterile	3.5	21	6.3 / 160	3	0.5	pk/500 (pks 20)	32.00	50	1-9	**16.00**
									60	Multi. of 10	**12.80**
3017-29	Narrow stem; non-sterile	3.5	25	6 / 150	1	0.25	pk/500	25.45	36	1-9	**16.29**
									44	Multi. of 10	**14.25**
3017-27	Narrow stem; Sterile	3.5	21	6.3 / 160	1	0.25	pk/500	67.30	50	1-4	**33.65**
									54	5-9	**30.96**
									57	Multi. of 10	**28.94**
3017-12	Narrow stem; Sterile	3.5	21	6.3 / 160	1	0.25	pk/500 (pks 20)	32.00	50	1-9	**16.00**
									60	Multi. of 10	**12.80**

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Sterile Pipets, Polystyrene, Serological Type

Available in a variety of tip styles — standard, wide, and open-end — for transferring liquids and suspensions of different viscosities. All pipets are virgin polystyrene, certified pyrogen-free and non-cytotoxic. Non-toxic color-coded cotton plugs provide easy size identification.

Sizes from 1 mL to 25 mL have unique smooth one-piece construction. There are no seams at the mouthpiece or tip ends, thus no possibility of sample hang-up or accidental breakage due to irregularities or weakness. One-piece construction also provides improved accuracy with calibration to deliver (TD) at ±2% (except 1 mL which are ±3%).

Sizes from 5 mL to 25 mL are two inches shorter than other typical pipettes, for ease of use under benchtop hoods especially with pipet bulbs and controllers. In addition, new 5 mL and 10 mL "Shorty" pipets now available are even shorter than the standard models, for ease of use in really tight spots. Open-end and wide-tip pipets yield faster flow rates and reduce shearing for food and meat applications.

Sterile pipets are available individually wrapped or bulk packaged. Individually wrapped sterile pipets are provided in static-free, one-side-paper one-side-plastic packaging that can be opened by peeling the end or by pushing the pipet through the paper side.

Item No.	Description	Length (inches)	Graduation Interval (mL)	Negative Graduations (mL)	Tip O.D. (mm)	Qty	List Price	% Off List	Qty Break	Your Cost
3018-31	1 mL Standard Bulk Packed 25 per bag	10.67	0.01	0.3	1.3-1.8	pack/1000	274.45	58	1-3	**115.27**
								64	4+	**98.80**
3018-32	2 mL Standard Bulk Packed 25 per bag	10.67	0.02	0.4	1.8-2.2	pack/1000	279.54	58	1-3	**117.41**
								64	4+	**100.63**
3018-35	5 mL Standard Bulk Packed 25 per bag	11.57	0.10	3.0	1.4-2.0	pack/375	158.30	58	1-3	**66.49**
								64	4+	**56.99**
3018-40	10 mL Standard Bulk Packed 25 per bag	11.57	0.10	3.0	1.6-2.4	case/250	120.87	58	1-3	**50.77**
								64	4+	**43.51**
3018-42	10 mL Wide-Tip Bulk Packed 25 per bag	11.57	0.10	3.0	3.0-3.4	case/250	120.87	58	1-3	**50.77**
								64	4+	**43.51**
3018-50	25 mL Standard Bulk Packed 10 per bag	11.67	0.20	2.6	2.3-3.5	case/100	114.71	58	1-3	**48.18**
								64	4+	**41.30**
3019-31	1 mL Standard Individually Wrapped	10.67	0.01	0.3	1.3-1.8	case/500	175.93	58	1-3	**73.89**
								64	4+	**63.33**
3019-32	2 mL Standard Individually Wrapped	10.67	0.02	0.4	1.8-2.2	pack/500	178.19	58	1-3	**74.84**
								64	4+	**64.15**
3019-35	5 mL Standard Individually Wrapped	11.57	0.10	3.0	1.4-2.0	pack/250	123.08	58	1-3	**51.69**
								64	4+	**44.31**
3019-44	10 mL Standard Individually Wrapped	11.57	0.10	3.0	1.6-2.4	pack/200	108.50	58	1-3	**45.57**
								64	4+	**39.06**
3019-41	10 mL "Shorty"-Tip Individually Wrapped	8.66	0.20	8.0	2.3-3.5	pack/100	102.78	58	1-3	**43.17**
								64	4+	**37.00**
3019-49	10 mL Wide-Tip Individually Wrapped	11.57	0.10	3.0	3.0-3.4	pack/200	108.49	58	1-3	**45.57**
								64	4+	**39.06**
3019-48	25 mL Standard Individually Wrapped	11.67	0.20	2.6	2.3-3.5	pack/100	111.81	58	1-3	**46.96**
								64	4+	**40.25**
3019-46	50 mL Standard Individually Wrapped	13.38	1.00	5.0	3.1-3.3	pack/100	325.45	58	1-3	**136.69**
								64	4+	**117.16**

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Fast-Release Pipet Pump™III
(Bel-Art Scienceware 37904)

Improved user friendly shape for maximum comfort and ease of use. Thumb wheel conveniently located to aspirate and dispense gradually while fast release trigger provides rapid dispensing. Resistant to acids, alkalis and solvents, and is easily disassembled for thorough cleaning. No blow out feature.

Item No.	Fits Pipets, up to mL	Color Coded	List Price	% Off List	Your Cost
3016-22	2	blue	26.10	20	**20.88**
3016-24	10	green	26.35	20	**21.08**
3016-26	25	red	35.05	20	**28.04**

Fast-Release Pipet Pump
(Bel-Art Scienceware)

Provides easy pipetting and features a rapid-release lever.   Use only with pipets calibrated to contain (no blow out feature). Rotating the knurled thumbwheel draws up or dispenses liquid.

Item No.	Fits Pipets, up to mL	Color Coded	List Price	% Off List	Your Cost
3016-47	2	blue	26.35	20	**21.08**
3016-48	10	green	26.35	20	**21.08**
3016-49	25	red	35.05	20	**28.04**
3016-43	Replacement Chuck				**5.49**
3016-41	Replacement Chuck Mounting				**3.21**

Proline® Plus Mechanical Pipettors
(Sartorius – formerly Biohit)

Highest accuracy and precision for today's demanding laboratories

Both adjustable and fixed volume models
- Autoclavable
- User calibratable
- Wide range of sizes – up to 10 mL on fixed volume model!
- Compatible with a wide range of tips
- Ergonomic design with light pipetting forces, comfortable handle and finger support for reduced risk of strain injuries
- For both right or left handed users
- Easy-to-read volumes
- Single channel
- IVD/CD certification
- 2 year warranty

Adjustable volume pipettor
- Easy to read display, easy volume change and quick turn
- Increased safety with volume lock preventing accidental volume changes while pipetting

Item No.	List Price	% Off List	Qty Break	Your Cost
3185-13	248.00	30	1	**173.60**
		35	2+	**161.20**
3185-15	248.00	30	1	**173.60**
		35	2+	**161.20**
3185-16	248.00	30	1	**173.60**
		35	2+	**161.20**
3185-18	248.00	30	1	**173.60**
		35	2+	**161.20**
3185-22	248.00	30	1	**173.60**
		35	2+	**161.20**
3185-24	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-26	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-28	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-30	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-32	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-34	186.00	25	1	**139.50**
		30	2+	**130.20**
3185-36	186.00	25	1	**139.50**
		30	2+	**130.20**

Item No.	Color Code (to match tips)	Mfr Item No.	Volume Range (µl)	Increment (µl)	Test Volumes (µl)	Inaccuracy (%)	Imprecision (%)
3185-15	Yellow or orange	728050	10 - 100	0.10	100 / 50 / 10	0.80 / 1.00 / 2.00	0.15 / 0.40 / 1.00
3185-16	Yellow or orange	728060	20 - 200	0.20	200 / 100 / 20	0.60 / 0.80 / 2.00	0.15 / 0.30 / 0.80
3185-18	Blue	728070	100 - 1000	1.00	1000 / 500 / 100	0.60 / 0.60 / 1.00	0.20 / 0.20 / 0.40
3185-22	Green	728080	500 - 5000	10.0	5000 / 2500 / 500	0.50 / 0.60 / 2.00	0.20 / 0.30 / 0.60
3185-24	Gray	728515	5	-	5	1.30	1.20
3185-26	Gray	728520	10	-	10	0.80	0.80
3185-28	Blue or Aqua	728567	500	-	500	0.30	0.20
3185-30	Blue or Aqua	728570	1000	-	1000	0.30	0.20
3185-32	Green	728575	2000	-	2000	0.30	0.15
3185-34	Green	728580	5000	-	5000	0.30	0.15
3185-36	Red	728590	10 ml	-	10000	0.60	0.20

Optifit™ Tips for Pipettor (Sartorius-Biohit)

Tips fit Biohit, 3M® Electronic and most other pipet brands

In liquid handling, the pipette and the tip always form a system. Perfect tip fitting and sealing to the pipette secures the best possible accuracy and precision. These tips provide excellent reproducibility and accuracy and are suitable for use with most other pipette brands.

- Highest quality virgin polypropylene
- Material used in tips, trays and racks (polypropylene) is 100% recyclable
- Air-tight plastic wrapping for maximal purity - wrapping is regular waste
- Flip-top boxes can be easily opened and closed using a single hand
- Color coding of the tip trays allows for easy matching with a suitable Biohit pipette
- RNase, DNase and endotoxin free certified by lot number.
- Labels indicate tip volume, tip type, lot number, etc.
- Fully traceable, CE/IVD certified

VOLUME PRICING AVAILABLE

Item No.	Mfr Item No.	Description	Color Code (to match Pipettor)	Volume Range, ul	Length	Qty
3185-72	790014	Non-Sterile, Bulk in Box	Gray	0.1-10	31.5 mm	1000 Tips
3185-71	790011	Pre-Sterilized, Single Tray	Gray	0.1-10	31.5 mm	10 x 96 Tips
3185-75	LH-B790204	Non-Sterile, Bulk in Box	Yellow	0.5-200	51 mm	960 Tips
3185-73	790201	Pre-Sterilized, Single Tray	Yellow	0.5-200	51 mm	10 x 96 Tips
3185-41	LH-B790354	Non-Sterile, Bulk in Box	Orange	5-350	54 mm	960 Tips
3185-42	790350	Non-Sterile, Single Tray	Orange	5-350	54 mm	10 x 96 Tips
3185-44	790351	Pre-Sterilized, Single Tray	Orange	5-350	54 mm	10 x 96 Tips
3185-46	790352	Non-Sterile, Refill Tower	Orange	5-350	54 mm	10 x 96 Tips
3185-48	790353	Pre-Sterilized, Refill Pack	Orange	5-350	54 mm	15 X 96 Tips
3185-51	LH-B791004	Non-Sterile, Bulk in Box	Blue	10-1000	71.5 mm	480 Tips
3185-52	791000	Non-Sterile, Single Tray	Blue	10-1000	71.5 mm	10 x 96 Tips
3185-54	791001	Pre-Sterilized, Single Tray	Blue	10-1000	71.5 mm	10 x 96 Tips
3185-56	791002	Non-Sterile, Refill Pack	Blue	10-1000	71.5 mm	10 x 96 Tips
3185-58	791003	Pre-Sterilized, Refill Pac	Blue	10-1000	71,5 mm	10 X 96 Tips
3185-61	LH-B791024	Non-Sterile, Bulk in Box	Aqua - Wide tip	10-1000	68.5 mm	480 Tips
3185-62	791020	Non-Sterile, Single Tray	Aqua - Wide tip	10-1000	68.5 mm	10 x 96 Tips
3185-64	791021	Pre-Sterilized, Single Tray	Aqua - Wide tip	10-1000	68.5 mm	10 x 96 Tips
3185-66	780304	Non-Sterile, Single Tray	Green	100-5000	150 mm	10 x 50 Tips
3185-68	780305	Pre-Sterilized, Single Tray	Green	100-5000	150 mm	10 x 50 Tips
3185-79	LH 780316	Non-Sterile, Bulk in Box	Red	1000-10000	161 mm	250 Tips

Item No.	List Price	% Off List	Qty Break	Your Cost
3185-72	37.00	20	1-4	29.60
		30	5+	25.90
3185-71	105.00	20	1-4	84.00
		30	5+	73.50
3185-75	36.00	15	1-4	30.60
		25	5+	27.00
3185-73	68.00	25	1-4	51.00
		35	5+	44.20
3185-41	36.00	15	1-4	30.60
		25	5+	27.00
3185-42	68.00	25	1-4	51.00
		35	5+	44.20
3185-44	94.00	20	1-4	75.20
		30	5+	65.80
3185-46	47.00	25	1-4	35.25
		35	5+	30.55
3185-48	84.00	25	1-4	63.00
		35	5+	54.60
3185-51	22.00	15	1-4	18.70
		25	5+	16.50
3185-52	66.00	20	1-4	52.80
		30	5+	46.20
3185-54	84.00	20	1-4	67.20
		30	5+	58.80
3185-56	40.00	25	1-4	30.00
		35	5+	26.00
3185-58	63.00	30	1-4	44.10
		40	5+	37.80
3185-61	22.00	15	1-4	18.70
		25	5+	16.50
3185-62	68.00	25	1-4	51.00
		35	5+	44.20
3185-64	90.00	20	1-4	72.00
		30	5+	63.00
3185-66	160.00	30	1-4	112.00
		40	5+	96.00
3185-68	190.00	35	1-4	123.50
		45	5+	104.50
3185-79	115.00	20	1-4	92.00
		30	5+	80.50

Maxymum Recovery Universal Fit Filter Pipet Tips (Corning)

- Volume: 100, 200, 300, and 1000 microliter
- Color: clear
- Pre-sterilized; autoclavable; racked
- Certified RNase, DNase, and endotoxin free

This Maxymum Recovery universal fit filter tip is for research grade pipettors, applications requiring high accuracy and reproducibility. Ideal for transferring viscous DNA, RNA, and protein solutions. All tips feature the "Uni-grip" design, which assures an airtight seal with most major brands of pipettors.

Item No.	Fits Pipettor, µL	Packaging	List Price	% Off List	Qty Break	Your Cost
3184-05	100	96 Tips/Rack, 10 Racks, **sterile**	106.25	30	1-4	74.38
				40	multi. of 5	63.75
3184-06	200	96 Tips/Rack, 10 Racks, **sterile**	106.25	30	1-4	74.38
				40	multi. of 5	63.75
3184-07	300	96 Tips/Rack, 10 Racks, **sterile**	106.25	30	1-4	74.38
				40	multi. of 5	63.75
3184-10	1000	100 Tips/Rack, 10 Racks, **sterile**	102.30	30	1-4	71.61
				40	multi. of 5	61.38

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BACTERIOLOGICAL TESTING

RCS High Flow Touch Microbial Air Sampler
(EMD Millipore)

The RCS High Flow Touch delivers reliable reproducible results for applications assessing the quality of ambient air. Sampler operates on impaction principle, drawing airborne micro-organisms onto an agar media strip for later incubation and analysis. Together with standardized, ready-to-use and certified HYCON Agar Strips the RCS High Flow Touch air samplers provide a complete system that is fully validated according to ISO 14698-1.

- Factory calibrated for use with the HYCON media strips
- High-resolution color touch single screen and user interface
  - Self-explaining icons guide through the menus
  - Commonly used symbols and functions
  - Standardized or flexible sampling options
  - Acoustic signaling
  - Manage up to 10 rotors
- Intuitive RCS Management Software is included
  - Date/time
  - Language
  - Time delay
  - Interval sampling
  - QA management
- Intuitive RCS Management Software is included
  - Date/time
  - Language
  - Time delay
  - Interval sampling
  - QA management
- Lightweight, compact design for portability and ease of use
- Horizontal or vertical installation, measurement at heights of up to 3 meters
- Centrifugal motion draws sample at 100 L/min at a particle size of 4 μm diameter; 8200 rpm rotor speed
- Seven preset , 3 user-defined sampling volumes
- Compatible with common sterilization and disinfection methods
  - Lexan® polycarbonate housing; aluminum/stainless steel autoclavable head
- Used with standardized and ready-to-use media or pour your own
  - Order agar strips separately

Includes power supply, cable, USB adapter, RCS Software, rotor, cap, case, quick guide, manual and calibration certificate

Item No.	Description	Mfr. Item No.	Qty Break	Your Cost
4140-80	RCS High Flow Air Sampler	1441940001	1	**5821.18**
			2+	**5687.36**
4140-81	Tripod	1442090001		**444.76**
4140-83	Recharging Station	1442560001		**563.81**
4140-88	carrying case	1441500001		**348.57**

CAMTU Compressed Air Microbial Test Unit
(Parker Balston)

Identify sources of contamination in compressed air and improve food safety

The CAMTU compressed air microbial test unit identifies sources of contamination in compressed air. Compressed air is used in a broad range of applications in the food processing industry, such as mixing of ingredients, cutting, sparging, drying of product, transporting/propelling product through processing systems and packaging of final product. In many of these applications, compressed air is in direct contact or indirect contact with food product. The impurities in the compressed air may contaminate the food product which can result in change of color and taste, reduced shelf life, in addition to exposure to bacteria and other micro-organisms, can result in product recalls.

How to use the CAMTU microbial test unit:
To obtain a sample, simply plug the connection tubing into the sample point on the compressed air system, insert a specially designed petri dish into the CAMTU, close the CAMTU, open the shutoff valve and expose the agar for 20 seconds. After exposure simply place the petri dish in an incubator for 48-hours or in a controlled environment of at least 68°F and observe for colony forming units (CFUs). Handles up to 40 PSI.

Features & Benefits:

- Specially designed 4-section petri dish
- Lightweight and ergonomically designed for ease of use
- Constructed of durable polypropylene - easily sanitized
- Pre-filled petri dishes with specialized tryptic soy agar designed to hold up to compressed air flow/pressure
- No electrical supply required
- Quick sampling time – 20 seconds

A complete kit which includes: CAMTU Sampling Device, DFU (Drainage fixture unit) Assembly, Timer device, Tubing ¼" OD, Regulator/Metering Assembly, Sanitizing spray bottle, and Shut off valve. Purchase petri dishes separately.

Item No.	Mfr Item No.	Description	Qty	Your Cost
4140-50	C01-0136	Compressed Air Microbial Test Kit	Each	**1108.00**
4140-58	C01-0143	Tryptic-soy agar (TSA) Pre-filled Plates	Pk/5	**44.47**
4140-59	C01-0134	Potato Dextrose Agar (PDA) Pre-filled Plates	Pk/5	**44.47**
4140-60	C01-0133	Unfilled petri dishes for CAMTU	Pk/5	**15.88**
4140-52	C01-0142	CAMTU Replacement Assembly	Each	**785.00**
4140-53	C01-0139	CAMTU Replacement Integral Timer	Each	**89.00**
4140-54	C01-0124	CAMTU Replacement Spray Bottle	Each	**29.41**
4140-55	C01-0125	CAMTU Replacement Regulator Assembly	Each	**330.97**
4140-57	C01-0126	CAMTU Replacement Shut-off Valve	Each	**32.50**

BACTERIOLOGICAL TESTING

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Sterile Biosart® 100 Disposable Monitors (Sartorius)

Specially designed for microbiological testing of beverages and water

These ready-to-use sterile Monitors incorporate a 0.45 µm membrane filter and cellulose pad. Using the supplied adaptor they are placed onto the base of a vacuum manifold. (Fits Sartorius, Millipore, S & S and Gelman.) After filtration, just remove the 100 mL funnel to convert the Monitor into a petri dish.

The major area of application is microbiological analysis of relatively large sample volumes that have a low number of microbes. The quantity can represent either the total bioburden or the detection and quantification of specific microorganisms. The counts are expressed in colony-forming units per 1 mL sample volume (CFU/mL).

- Safe & reliable: Sterile, individually packaged available, validated, certified membrane filters
- Saves time: Ready to connect; easy to use and practical handling features
- Economy: High flow rate, large filtration area, high total throughput
- Saves money: Only needs a minimal amount of equipment

Item No.	Mfr Item No.	Description	Pore Size	Qty	List Price	% Off List	Qty Break	Your Cost
3046-30	16401-47-06-VK	Monitor with 47 mm white membranes and black grid. Packaged 2 layers of 24	0.45 µm	Case/48	111.00	43	1	**63.27**
						53	2+	**52.17**
3046-31	16403-47-06-VK	Monitor with 47 mm gray (black when wet) membranes and white grid. Packaged 2 layers of 24	0.45 µm	Case/48	111.00	43	1	**63.27**
						53	2+	**52.17**
3046-27	16401-47-06-ACK	Monitor with 47 mm white membranes and black grid. Individually wrapped	0.45 µm	Case/48	231.00	43	1	**131.67**
						53	2+	**108.57**
3046-28	16401-47-07-K	Monitor with 47 mm white membranes and black grid. Packaged 4 bags of 12	0.2 µm	Case/48	147.00	43	1	**83.79**
						53	2+	**69.09**
3046-29	16403-47-06-K	Monitor with 47 mm gray (black when wet) membranes and white grid. Packaged 4 bags of 12	0.45 µm	Case/48	147.00	43	1	**83.79**
						53	2+	**69.09**
3046-32	16403-47-06-ACK	Monitor with 47 mm gray (black when wet) membranes and white grid. Individually wrapped	0.45 µm	Case/48	231.00	43	1	**131.67**
						53	2+	**108.57**
3046-34	16401-47-06-K	Monitor with 47 mm white membranes and black grid. Packaged 4 bags of 12	0.45 µm	Case/48	143.00	43	1	**81.51**
						53	2+	**67.21**
3048-20	17846-ACK	Nylon Hydrophilic Syringe filters 25 mm dia.	0.45µm	pack/50	133.00	30		**93.10**

Vacuum-Pressure Diaphragm Pump (Gast)

Free-air capacity of 1.1 cfm

- Oil-less – runs dry
- Pressure and vacuum gauges
- Shaded-pole, ball bearing type, fan-cooled motor
- Thermal overload switch to protect the pump system

Specifications

Max vacuum	25.5" Hg
Max pressure (psi)	60
Free-air capacity	1.1 cfm (31.2 L/min)
Port size	1/4" NPT(F), 3/8" hose barb on gauges
Max temperature	100°F (38°C)
Motor type	permanent split capacitor
Duty cycle	Continuous
hp	1/8
Wetted parts	Aluminum, stainless steel, NORDEL®, and NOMEX®
Noise level (dB)	68
Dimensions	7-5/8"L x 5-1/8"W x 10-1/4"H
Amps	4.2
Power	115 VAC, 60 Hz
Stages	Single

Item No.	Your Cost
3054-50	**498.75**

Hand Vacuum Pump with Gauge

Reads in both cm and inches of mercury. Easy vacuum release valve with disconnecting the pump. Pumping rate is 15 mL per stroke.
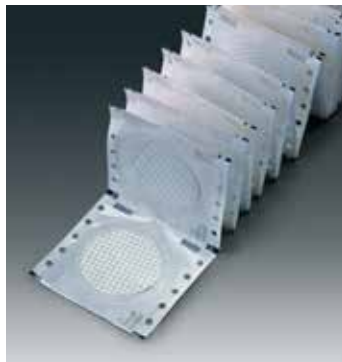
Item No.	Your Cost
3053-66	**39.00**

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BACTERIOLOGICAL TESTING

Sterile 47 mm Membrane Filters (Sartorius)

Outstanding recovery rates for microorganisms

Sterile, individually wrapped membranes have a 0.45 µm pore size. They are made of cellulose nitrate (cellulose ester), a material that assures effective retention with high flow rates and optimum colony growth. The printed grid divides the filtration area into 130 squares (each measuring 3.1x3.1 mm) which makes the counting easier, especially for higher bacteria counts and for micro-colonies, but does not influence the growth. White membranes are most popular for enumerating general bacteria. Gray membranes turn black when wet for facilitating the detection of yeast and molds.

- Certified Quality
- Gamma irradiated, 25kGray
- No enhancement or inhibition by the grid lines

Item No.	Mfr. Item No.	Description	Qty	List Price	% Off List	Qty Break	Your Cost
3046-05	114H6-47-ACN	White with black grid; high	pack/100	120.00	60	1-9	48.00
					68	Multi. of 10	38.40
3046-09	13006-47-ACN	Gray for yeast and molds	pack/100	120.00	60	1-9	48.00
					68	Multi. of 10	38.40

Non-sterile 47 mm Membrane Filters (Sartorius)

Non-sterile, gridded membrane filters can be used for colony counting, particle testing and microscopy. Before usage, the filters first need to be sterilized (e.g. by autoclaving at 121°C). Cellulose nitrate filters (mixed cellulose ester) contain a mixture of cellulose nitrate and cellulose acetate, which assures effective retention combined with high flow rates and optimal colony growth. Cellulose acetate combines high flow rates and thermal stability with very low adsorption characteristics. Individually wrapped membranes have a 0.45 µm pore size.

Item No.	Mfr. Item No.	Description	Qty	Qty Break	Your Cost
3046-00	11406-47-N	White with black grid; high flow membrane	pack/100	1-9	65.82
				Multi. of 10	53.00

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Tygon® S3™ E-3603 Laboratory Tubing

Phthalate-free Formulation

- Outstanding chemical resistance
- Contains no BPA or phthalates
- Hold U.C. S full vacuum at room temperature
- Lot-to-lot consistency for reproducible results
- Non-oxidizing and non-contaminating
- New bio-based formulation delivers the same excellent performance
- Smooth, polished inner wall
- Slips easily over fittings and grips securely for simple lab set-ups

Item No.	Size	Qty	Qty Break	Your Cost
3058-19	5/16" ID x 1/2" OD x 3/32" Wall	1 foot	1-49	5.00
			Multi.of 50	3.23
3058-21	3/8" ID x 9/16" OD x 3/32" Wall	1 foot	1-49	5.49
			Multi.of 50	3.80

Filtering Flask, Borosilicate Glass

Heavy wall filtering flask includes a bolt neck with tubulation.
Borosilicate glass flasks are designed to give the best combination of thermal shock resistance and physical strength. Feature heavy-duty rims and printing in durable white enamel.

Item No.	Capacity (ml)	O.D. x Height (mm)	Qty Break	Your Cost
2058-10	500	108 x 190	1	17.73
			2+	14.55
2058-11	1000	138 x 245	1	25.94
			2+	21.18

Filtering Flask with Side Arm (Bel-Art)

Unbreakable polypropylene

These flasks, also called vacuum flasks, have a side-arm with a 45° downward angle to prevent tipping.
- Reduce broken glassware with this flask constructed of FDA grade polypropylene
- Side Arm accepts flexible tubing from 3/8" to 1/2" I.D.
- 1000 ml capacity

Item No.	Mfr Item No.	List Price	% Off List	Your Cost
2058-12	389410000	33.25	10	29.93

Tubing Coupler for ¼" x 3/8" ID

Tubing coupler for ¼" x 3/8" ID connects the Filtering Flask with Side Arm (2058-12), and the Hand Vacuum Pump with Gauge (3053-66), when using the Tygon Laboratory Tubing (3058-21).

Item No.	Your Cost
2058-13	0.75

Weber Filter Flask Stopper

Stopper with hole fits 2058-10, -11, -12 Filter Flasks.

Item No.	Description	Your Cost
2058-21	Stopper fits 2058-12	10.00
2058-29	Stopper fits 2058-10	7.25
2058-30	Stopper fits 2058-11	9.00

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Filter Funnel Manifold
(Pall/Gelman)

The economical plastic manifold features individual release valves to allow removal of membranes without tearing. The new aluminum manifold provides greater durability.

Item No.	Mfr Item No.	Descrip.	Material	List Price	% Off List	Your Cost
3053-80	4205	3-place	plastic	1190.56	20	952.45
3053-82	15402	3-place	aluminum	1335.25	20	1068.20
3053-84	15403	6-place	aluminum	2405.20	20	1924.16

47 mm Magnetic Filter Funnel
(Pall/Gelman 4201)

Patented twin magnet design ensures a no-leak seal between the funnel body and stem. Autoclavable polysulfone. 300 mL capacity.

All funnels come without lids.

Item No.	Mfr Item No.	Capacity, mL	List Price	% Off List	Your Cost
3053-73	4247	150	291.47	14	250.66
3053-75	4242	300	291.35	20	233.08
3053-77	4238	500	320.84	20	256.67

GasPak™ EZ Gas Generating Container System (BD Diagnostics)

Cultivation of Anaerobic Bacteria

The GasPak™ EZ Gas Generating Container Systems are multi-use systems that produce atmospheres suitable to support the primary isolation and cultivation of anaerobic, microaerophilic, or capnophilic bacteria by use of gas generating sachets inside multi-use incubation containers. The system offers bio-performance and reliability without the need for a catalyst or activation procedure. The GasPak EZ Gas Generating Sachet contains all the ingredients needed to create a specific atmosphere for specimen incubation. The sachet and specimens are placed in the clear, stackable, plastic GasPak EZ Incubation Container. The container is sealed and the sample is incubated.
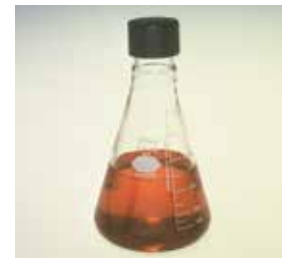

Item No.	Mfr. Item No.	Description	Qty	List Price	% Off List	Your Cost
3098-50	260678	GasPak EZ Anaerobe Container System Sachets	pack/20	77.78	10	70.00
3098-51	260001	GasPak EZ Anaerobe Container System Sachets w/Indicator	pack/20	74.58	10	67.12
3098-52	260683	GasPak EZ Anaerobe Pouch System	pack/20	109.22	10	98.30
3098-53	260680	GasPak EZ Campy Container System Sachets	pack/20	82.29	10	74.06
3098-54	260685	GasPak EZ CampyPouch™ System	pack/20	99.51	10	89.56
3098-55	260679	GasPak EZ CO2 Container System Sachets	pack/20	77.78	10	70.00
3098-56	260684	GasPak EZ CO2 Pouch System	pack/20	94.20	10	84.78
3098-59	271051	GasPak Dry Anaerobe Indicator Strips	pack/100	98.24	10	88.42
3098-57	260672	GasPak EZ Large Incubation Container	each	140.54	10	126.49
3098-63	260674	GasPak EZ Large Incubation Rack	each	81.71	10	73.54
3098-58	260671	GasPak EZ Standard Incubation Container	each	129.11	10	116.20
3098-62	260673	GasPak EZ Standard Incubation Rack	each	77.38	10	69.64
3098-60	260002	GasPak EZ Small Incubation Container	each	94.10	10	84.69
3098-61	260003	GasPak EZ Small Incubation Rack	each	65.36	10	58.82

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Glass Erlenmeyer Flasks with Screw Cap (Kimble 26505)

With capacity scale. Useful for mixing and storing culture media and also for many culturing techniques. Supplied with long caps having cemented-in inert rubber liners. All flasks have durable white scales to indicate approximate volumes at various levels, useful for measuring solutions where a high degree of accuracy is unnecessary.

Item No.	Capacity mL	Interval grad. mL	Division mL	Approx. widest diam. mm	Approx. height mm	GPI thread finish	Qty	Qty Break	Your Cost
2071-01	250	50-250	25	81	128	28-410	each	1-5	27.02
								Multiples of 6	17.15
2071-05	500	100-500	50	102	175	38-430	each	1-5	27.68
								Multiples of 6	17.57
2071-08	1000	250-1000	50	128	215	38-430	each	1-5	32.51
								Multiples of 6	20.63
2071-14	2000	600-2000	200	161	273	38-430	each	1	56.81
								Multiples of 2	36.05

Replacement Screw Cap for Erlenmeyer Flasks (Kimble)

2071-10	28-410	2.84
2071-11	38-430	2.70

Glass Erlenmeyer Flasks (Kimble 26500)

Narrow mouth, with reinforced beaded top and capacity scale. Flasks have durable white scales to indicate approximate volumes at various levels, useful in measuring and mixing solutions where a high degree of accuracy is not a prime consideration.

Item No.	Capacity ml	Interval Graduated ml	Subdivision ml	Qty	List Price	% Off List	Qty Break	Your Cost
2058-01	125	50 - 125	25	each			1-11	5.45
							Multiples of 12	3.46
2059-01	250	50 - 225	25	each			1-11	5.65
							Multiples of 12	3.59
2060-01	500	100 - 500	50	each			1-5	8.72
							Multiples of 6	5.54
2063-01	1000	250 - 1000	50	each			1-5	11.56
							Multiples of 6	7.33
2063-06	2000	600 - 2000	200	each			1-3	26.95
							Multiples of 4	17.11
2063-11	4000	1000 - 4000	500	each	72.99	25		54.74

Glass Beakers (Kimble 14000)

Griffin low form, with capacity scale. All beakers have easily read white scales to indicate approximate volumes for measuring and mixing solutions where high accuracy is not needed.

Item No.	Capacity mL	Interval Graduated mL	Subdivision mL	Qty	List Price	% Off List	Qty Break	Your Cost
2050-00	50	10 - 40	10	pack/12	47.91	25		35.93
2052-00	100	20 - 80	10	pack/12	49.84	20		39.87
2055-00	250	25 - 200	25	pack/12	47.71	25		35.78
2056-01	600	50 - 500	50	each			1-5	6.97
							Multiples of 6	4.43
2057-01	1000	50 - 950	50	each			1-5	13.10
							Multiples of 6	8.31
2057-06	2000	200-1800	200	each			1-3	25.98
							Multiples of 4	16.49

Graduated Beakers, Griffin (Nalgene 1201)

Polypropylene, translucent and autoclavable beakers are virtually unbreakable. Silk-screened graduations. Excellently designed for general laboratory use.

Item No.	Capacity mL	Subdivision mL	Qty	List Price	% Off List	Your Cost
2077-06	50	10	pack/12	75.48	50	37.74
2077-10	100	10	pack/12	92.29	50	46.15
2077-14	250	25	pack/6	82.48	50	41.24
2077-18	600	100	pack/4	102.89	50	51.45
2077-22	1000	100	pack/3	96.94	50	48.47

LABWARE

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Graduated Cylinders, Economy
Polypropylene. One piece construction with molded graduations.
Accuracy meets Federal Specifications NNN-C-940. Autoclavable.

Item No.	Capacity mL	Subdivision mL	Qty	List Price	% Off List	Qty Break	Your Cost
2078-76	50	1	each	7.15	20	1-11	5.72
					30	Multiples of 12	5.01
2078-80	100	1	each	8.85	20	1-11	7.08
					30	Multiples of 12	6.20
2078-84	250	2	each	9.90	20	1-11	7.92
					30	Multiples of 12	6.93
2078-88	500	5	each	13.50	20	1-5	10.80
					30	Multiples of 6	9.45
2078-92	1000	10	each	18.90	20	1-5	15.12
					30	Multiples of 6	13.23

Graduated Cylinders (Nalgene 3662)
Translucent and autoclavable polypropylene with black, easy to read molded-in graduations. Excellent accuracy meets ASTM Class B and ISO Standard 6706 requirements. Broad hexagonal base resists tipping. Shatterproof.

Item No.	Capacity mL	Subdivision mL	Tolerance± mL	Qty	List Price	% Off List	Qty Break	Your Cost
2078-36	50	1	± .05	each	46.45	50	1-17	23.23
						62	Multiples of 18	17.65
2078-40	100	1	± 1.0	each	49.07	50	1-11	24.54
						62	Multiples of 12	18.65
2078-44	250	2	± 2.0	each	65.97	50	1-11	32.99
						62	Multiples of 12	25.07
2078-48	500	5	± 4.0	each	86.95	50	1-7	43.48
						62	Multiples of 8	33.04
2078-52	1000	10	± 6.0	each	108.89	50	1-5	54.45
						62	Multiples of 6	41.38

Volumetric Graduated Cylinders, Class A (United Scientific)
Class A glassware at a phenomenal price

- ASTM E-1272
- Borosilicate glass
- Hexagonal Base
- "Batch Certified"
- Certificate of Conformity with results of the analysis
- Bumper guard included

Item No.	Size, mL	Graduations, mL	List Price	% Off List	Qty Break	Your Cost
2077-60	10	0.2	17.53	50	1-2	8.77
				55	3+	7.89
2077-61	25	0.5	24.66	50	1-2	12.33
				55	3+	11.10
2077-62	50	1.0	26.64	50	1-2	13.32
				55	3+	11.99
2077-63	100	1.0	29.97	50	1-2	14.99
				55	3+	13.49
2077-64	250	2.0	41.30	50	1	20.65
				55	2+	18.59
2077-65	500	5.0	76.91	50	1	38.46
				55	2+	34.61
2077-66	1000	10.0	135.18	50	1-2	67.59
				55	3+	60.83
2077-67	2000	20.0	206.15	50	1-2	103.08
				55	3+	92.77

2077-67

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LABWARE

Media Storage Bottles (Kimble)

Popular general use bottles have permanent white enamel graduations and marking spots and are provided with a wide opening (about 30 mm ID). Polypropylene linerless cap provides a flexible secure seal and the polypropylene drip-free pouring ring also protects the rim of the bottle. All bottles, caps and pour-rings can be autoclaved repeatedly. Available in a case of 10.

Item No.	Size mL	Grad. mL	Div. mL	Apprx. OD in/mm	Apprx. Height in/mm	Cap Color	List Price	% Off List	Your Cost
2074-02	100	20-80	10	2.2/56	3.9/100	blue	93.37	25	70.03
2074-03	250	50-200	25	2.8/70	5.4/138	blue	102.78	25	77.09
2074-06	500	100-400	50	3.4/86	6.9/176	blue	122.87	25	92.15
2074-09	1000	100-900	50	4.0/101	8.9/225	blue	149.42	25	112.07

2074-06

Replacement Parts Item No.	Description	Qty	List Price	% Off List	Your Cost
2074-45	blue caps	pack/10	35.54	18	29.14
2074-46	white caps	pack/10	35.64	18	29.22
2074-47	orange caps	pack/10	35.64	18	29.22
2074-65	pouring rings	each			1.26

Wash Bottles, Wide Mouth (Bel-Art Scienceware)

Low-density polyethylene wash bottles with wide mouths for easy filling.

Item No.	Capacity mL/oz.	Qty	List Price	% Off List	Your Cost
2076-03	250/8	pack/12	55.65	20	44.52
2076-06	500/16	pack/6	32.95	20	26.36
2076-09	1000/32	pack/3	25.35	20	20.28

Wash Bottles, Unitary

Translucent and unbreakable low density polyethylene, with a built-in delivery tube making it a one-piece wash bottle. Available as a pack of 12.

Item No.	Capacity	Graduated Interval	List Price	% Off List	Qty Break	Your Cost
4410-03	250 mL	50 mL	54.96	40	1-2	32.98
				49	3+	28.03
4410-06	500 mL	100 mL	66.54	40	1-2	39.92
				49	3+	33.94

Wide Mouth Polypropylene Reagent Bottles (United Scientific)

Polypropylene bottles are rigid, translucent, have excellent contact clarity, and can be autoclaved.

Item No.	Mfr Item No.	Capacity (ml)	Height (mm)	Neck Dia. I.D. (mm)	Cap Size (mm)	Qty	List Price	% Off List	Qty Break	Your Cost
2075-08	33311	30	62	21	28	pack/12	26.53	35	1-5	17.24
								48	6+	13.80
2075-09	33306	60	73	21	28	pack/12	26.54	35	1-5	17.25
								48	6+	13.80
2075-10	33307	125	100	28	38	pack/12	41.75	35	1-5	27.14
								48	6+	21.71
2075-11	33308	250	137	33	43	pack/12	60.14	35	1-5	39.09
								48	6+	31.27
2075-12	33309	500	149	43	53	pack/12	82.70	35	1-5	53.76
								48	6+	43.00
2075-13	33310	1000	218	53	63	pack/6	83.53	35	1-5	54.29
								48	6+	43.44

LABWARE

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Economy Graduated Pitchers

Autoclavable polypropylene. Raised graduations.

Item No.	Capacity mL	Grad. mL	Top I.D.	Height	List Price	% Off List	Qty Break	Your Cost
2057-40	250	10	3.3" (83 mm)	3.9" (99 mm)	5.34	30	1-11	3.74
						50	12+	2.67
2057-43	500	10	3.8" (97 mm)	5" (126 mm)	5.56	30	1-11	3.89
						50	12+	2.78
2057-45	1000	10	4.5" (114 mm)	6.7" (170 mm)	5.65	30	1-5	3.96
						50	6+	2.83
2057-49	2000	20	5.9" (150 mm)	8.3" (212 mm)	8.14	30	1-5	5.70
						50	6+	4.07
2057-51	5000	250	7.2" (184 mm)	8.9 (225 mm)	35.50	30	1-5	24.85
						50	6+	17.75

Disposable Culture Tubes, Screw Neck Finish (Kimble 73750)

Borosilicate glass. Screw caps must be ordered separately.

Item No.	Approx. O.D. mm	Approx. Length mm	Overflow Capacity mL	Approx. GPI Thread Finish	Inner Pack Qty	Case Qty	List Price	% Off List	Your Cost
3014-48	13	100	8	13-415	500	1000	379.66	55	170.85
3014-50	16	150	20	15-415	250	1000	403.77	40	242.26
3014-54	20	150	30	18-415	250	500	320.77	45	176.42

Disposable Screw Caps (Kimble 73800)

Autoclavable phenolic cap with cemented-in rubber liner. 1000 per case.

Item No.	GPI Thread Finish	List Price	% Off List	Your Cost
3014-58	13-415	136.99	35	89.04
3014-60	15-415	143.60	35	93.34
3014-64	18-415	177.72	35	115.52

Disposable Sterile Polystyrene Culture Tubes

Made of polystyrene for clarity. Precision molded and heavy wall thickness for durability.
Round bottoms for easy sample removal.

Item No.	Size, mm / in. (approx.)	Volume mL (approx.)	Cap style	Qty	Qty Break	Your Cost
3013-61	12 X 75 / ½ X 3	5	Snap	1000, 40 bags of 25	1	79.20
					2+	67.32
3013-48	13 X 100 / ½ X 4	8	Screw	500, 20 bags of 25	1	166.31
					2+	141.85
3013-69	17 X 100 / .7 X 4	14	Snap	1000, 40 bags of 25	1	172.00
					2+	146.20
3013-76	16 X 120 / .6 X 5	15	Screw	750, 5 packs of 150	1	272.08
					2+	231.27
3013-65	16 X 125 / .6 X 5	19	Screw	500, 20 bags of 25	1	159.84
					2+	136.34

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Centrifuge Tubes

Conical 15mL and 50mL centrifuge tubes are made of premium polypropylene for clarity and centrifugal strength. They are supplied sterile, and although they are autoclavable, their polyethylene screw caps are not. Tubes and caps may be frozen at temperatures as low as -45°C. The maximum centrifugal force for both 15mL and 50mL tubes is 9000xg. Caps have a flat top surface for easy marking and labeling. Cap colors are available in blue or assorted.

Item No.	Mfr. Item No.	Description	Capacity	Packaging	Qty	Qty Break	Your Cost
3014-01	C2600	Blue Caps	15mL	50 sterile foam rack, 10 racks per case	Case/500	1	72.18
						2+	62.15
3014-09	C2601	Blue Caps	15mL	25 sterile bag, 10 bags per case	Case/500	1	70.56
						2+	60.76
3014-06	C2715	Multi-colored Caps	15mL	50 sterile foam rack, 10 racks per case	Case/500	1	95.16
						2+	81.94
3014-13	C2716	Multi-colored Caps	15mL	25 tubes of each color per bag, 4 bags of each color per pack, 20 bags per case	Case/500	1	83.87
						2+	72.22
3014-11	C2602	Blue Caps	50mL	25 sterile foam rack, 20 racks per case	Case/500	1	85.48
						2+	73.61
3014-02	C2603	Blue Caps	50mL	25 sterile bag, 10 bags per case	Case/500	1	83.87
						2+	72.22
3014-07	C2750	Multi-colored Caps	50mL	25 sterile foam rack, 20 racks per case	Case/500	1	104.84
						2+	90.28
3014-14	C2751	Multi-colored Caps	50mL	25 tubes of each color per bag, 4 bags of each color per pack, 20 bags per case	Case/500	1	95.16
						2+	81.94
3014-03	R1070	Rack for 30x 15mL tubes			Pack/5	1	37.10
						2+	31.94

SureSeal Microcentrifuge Tubes

Microcentrifuge tubes are made of premium polypropylene plastic allowing for a crystal clear tube and centrifugal strength. They feature a secure-snap cap that ensures a strong seal and eliminates leakage and evaporation.

Capable of withstanding boiling temperatures up to 121°C and freezing down to -80°C. Microcentrifuge tubes are RNase, DNase & Pyrogen free.

Item No.	Mfr Item No.	Capacity (ml)	Qty	List Price	% Off List	Qty Break	Your Cost
3014-04	C2000	1.5	case/500	12.90	30	1-9	9.03
					40	10+	7.74

PCR Reaction Tube Strips (Simport)

PCR Reaction Tube Strips are made of polypropylene with individually attached caps. The strip includes 8 integral 0.2 ml tubes with ultra-thin sidewalls and bottoms for more uniform and efficient temperature transfer.

Can be easily opened and closed with one hand, their positive sealing will fully protect the contents from evaporation during the whole thermal cycle. The cap has an integral seal preventing contamination with surface of lid.

While more easily handled than single tubes, the strip will precisely fit standard well spacing and can also be used with 8-channel hand-held pipettors. Packed in tamperproof resealable bags.

Item No.	Mfr Item No.	Capacity (ml)	Qty	Your Cost
3189-10	T320-2N	0.2	case/125	55.06

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Super Polyfoil™ Autoclaving Wrap (Bel-Art Scienceware)

Polyester backed foil provides a chemically inert barrier to cover vessels for autoclaving, incubating or storage. Resistant to punctures, tears and corrosion. Super Polyfoil™ is great for clinical, research and industrial uses. A thermoplastic layer is laminated to 1mil foil, which folds easily and flattens without kinking. The polyester film blocks any possible pinholes, resists organic solvents and caustic agents and complies with FDA regulations governing direct food contact application. 100 sheets per pack.

Item No.	Size	List Price	% Off List	Your Cost
3068-85	102 x 102mm (4" x 4")	34.65	20	27.72
3068-86	130 x 130mm (5 1/8" x 5 1/8")	44.95	20	35.96

Parafilm® Dispenser

Designed to offer superior protection from the blade while in use. Safety is especially important on this model, as it features a super sharp blade for easy cutting. The sturdy transparent acrylic housing allows monitoring of the film supply. Holds one or two 2" rolls or one 4" roll.

Item No.	List Price	% Off List	Your Cost
3068-70	122.95	30	86.07

Aluminum Foil Squares

Interleaved with paper for easy separation. Use for weighing samples, capping labware for storage, autoclaving and many other uses.

Item No.	Size inches/mm	Thickness inches/mm	Qty	Your Cost
3068-90	4 X 4 / 102	1 mil 0.001 / 0.025	case/500	34.44
3068-91	6 X 6 / 152	1 mil 0.001 / 0.025	case/500	72.85
3068-92	8 X 8 / 203	1.5 mil 0.0015 / 0.04	case/500	125.89
3068-93	12 X 12 / 305	1.5 mil 0.0015 / 0.04	case/500	280.00

Parafilm® Sealing Film

Flexible, self-sealing sheet material commonly used to seal flasks, tubes, petri dishes, etc. Translucent, odorless, tasteless and with good chemical resistance.
At 70°F it can be stretched 200% and will return partially to its original length. At 180 to 200°F it softens sufficiently to make an adhesive bond between papers, cloths, etc. Supplied in dispenser carton. 4" X 250' roll.

Item No.	Your Cost
3068-60	41.25

Poxygrid® Labware Drain Stand
(Bel-Art Scienceware 18805)

Three rows of hairpin-loop supports (14 in all) hold labware with 18mm I.D. necks or larger. With polystyrene drip tray. May also be wall mounted. 16 3/4" X 6 1/2" X 19" (43 X 17 X 48 cm). Shipping weight 4 1/2 lbs. (2 kg).

Item No.	List Price	% Off List	Your Cost
3311-10	101.60	15	87.98

Drying-Draining Rack (United Scientific Supplies)

The plastic draining rack provides an excellent option for the post-wash draining of tubes and bottles. The back plate has 20 pegs to hold your tubes/bottles and a rack featuring a wastewater tray and drain. 20" H X 14" W X 3" D (508 x 356 x 76 mm)

Item No.	Your Cost
3311-30	97.12

Safety Pipet Filler

Three valves control vacuum for filling and delivering. Fits practically all pipets. Available in either natural rubber, or silicone rubber for a softer feel and greater chemical resistance.

Item No.	Description	Color	List Price	% Off List	Qty Break	Your Cost
3016-30	Natural Rubber	black	30.52	69	1-9	9.46
				76	10+	7.32
3016-40	Silicone	black	41.12	65	1-4	14.39
				73	5+	11.10
3016-32	Natural Rubber	red	30.52	69	1-9	9.46
				76	10+	7.32
3016-42	Silicone	red	41.12	65	1-4	14.39
				73	5+	11.10
3016-34	Natural Rubber	blue	30.52	69	1-9	9.46
				76	10+	7.32

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CONSUMABLES

4332-66

4332-74

4332-68

4333-22

Weber Scientific Disposable Nitrile Gloves

Ambidextrous latex-free gloves are strong yet soft, flexible and comfortable. Micro-textured fingers for secure wet or dry handling. Excellent tactile sensitivity and dexterity. Beaded cuffs for easy donning. 9.5" length. Powder-free in both exam (501K rating suitable for medical use) and food grades.

Powder-Free Exam Grade – 4 mil thick.

Item No.	Size	Color	Qty	Qty Break	Your Cost
4332-66	small	light blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-74	small	cobalt blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-68	medium	light blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-78	medium	cobalt blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-70	large	light blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-80	large	cobalt blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-72	x-large	light blue	pack/100	1-9	8.55
				multiples of 10	7.36
4332-82	x-large	cobalt blue	pack/100	1-9	8.55
				multiples of 10	7.36

Powder-Free Exam Grade
– 3.1 mil cuff, 4.7 mil palm, 5.5 mil finger. Black.

Item No.	Size	Color	Qty	Qty Break	Your Cost
4333-22	small	black	pack/100	1-9	10.74
				multiples of 10	9.36
4333-23	medium	black	pack/100	1-9	10.74
				multiples of 10	9.36
4333-24	large	black	pack/100	1-9	10.74
				multiples of 10	9.36
4333-25	x-large	black	pack/100	1-9	10.74
				multiples of 10	9.36

Powder-Free Food Grade – 4 mil thick. Light blue.

Item No.	Size	Qty	Qty Break	Your Cost
4332-84	small	pack/100	1-9	7.69
			multiples of 10	5.54
4332-85	medium	pack/100	1-9	7.69
			multiples of 10	5.54
4332-86	large	pack/100	1-9	7.69
			multiples of 10	5.54

Weber Scientific Disposable Powder-Free Vinyl Gloves

Non-latex alternative offers a flexible ambidextrous fit. Strong and durable. Rolled cuff for easy donning. Smooth finish and 5 mil thickness. 9.5" length. Dispenser box.

Item No.	Size	Qty	Qty Break	Your Cost
4331-30	small	pack/100	1-9	4.20
			multiples of 10	3.50
			multiples of 100	2.99
4331-32	medium	pack/100	1-9	4.20
			multiples of 10	3.50
			multiples of 100	2.99
4331-34	large	pack/100	1-9	4.20
			multiples of 10	3.50
			multiples of 100	2.99
4331-36	x-large	pack/100	1-9	4.20
			multiples of 10	3.50
			multiples of 100	2.99

CONSUMABLES

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Whirl-Pak® Sterile Sampling Bags (Nasco) ⑤

- Sterile, single service bags are made of low density transparent polyethylene.
- Leak-proof and airtight.
- Puncture-proof tabs minimize bag puncture, scratching of hands, and damage to gloves.
- Capacity is measured when the bag is closed and tab is folded over 3 times. *Volume and dimensions are approximate.*
- Bags should not be used at temperatures above 180°F (82°C). Bags can be frozen to any temperature.
- Write-on strips have a paper-like and smear-resistant finish and can be written on with an ordinary ballpoint pen, pencil or marker.
- FDA approved for food contact.
- Yellow tape closures.

Double round wire closure:

Item No.	Mfr Item No.	Capacity Oz. / mL	Size Inches	mm	Description	Thickness mil	Qty/ pack	List Price	% Off List	Your Cost
3031-90	01009	2 58	3 X 5	75 X 125	plain	2.25	500	44.80	10	**40.32**
3032-00	01064	2 58	3 X 5	75 X 125	write-on strip (doubles as fill line)	2.25	500	47.90	10	**43.11**
3033-00	00679	4 118	3 X 7 1/4	75 X 185	plain	2.25	500	45.90	10	**41.31**
3033-01	01062	4 118	3 X 7 1/4	75 X 185	write-on strip (doubles as fill line)	2.25	500	49.30	10	**44.37**
3033-03	00992	7 207	3 3/4 X 7	95 X 180	plain	3	500	56.30	10	**50.67**
3033-06	01489	7 207	3 3/4 X 7	95 X 180	write-on strip	2.5	500	61.70	10	**55.53**
3033-78	01018	13 384	5 1/14 X 7 1/2	130 X 190	plain	3	500	72.40	10	**65.16**
3033-79	01490	13 384	5 1/14 X 7 1/2	130 X 190	write-on strip	2.5	500	81.00	10	**72.90**
3034-00	00736	18 532	4 1/2 X 9	115 X 230	plain	2.5	500	64.60	10	**58.14**
3034-01	01065	18 532	4 1/2 X 9	115 X 230	write-on strip	2.5	500	69.40	10	**62.46**
3034-65	01020	24 710	6 X 9	150 X 230	plain	3	500	84.70	10	**76.23**
3034-66	01297	24 710	6 X 9	150 X 230	write-on strip	3	500	91.10	10	**81.99**
3034-85	01063	24 710	6 X 9	150 X 230	plain (homogenizer)	4	500	110.10	10	**99.09**
3034-87	01196	24 710	6 X 9	150 X 230	write-on strip (homogenizer)	4	500	115.00	10	**103.50**
3034-67	00990	27 798	5 X 12	125 X 305	plain	3	500	88.30	10	**79.47**
3034-68	01491	27 798	5 X 12	125 X 305	write-on strip	3	500	105.90	10	**95.31**
3034-88	00994	36 1065	5 X 15	125 X 380	plain (homogenizer)	3	500	103.20	10	**92.88**
3034-86	01027	42 1242	6 X 15	150 X 380	plain	3	500	120.80	10	**108.72**
3034-91	01239	52 1538	7 X 13	185 X 330	write-on round bottom seal (homogenizer)	4	500	183.50	10	**165.15**
3034-74	01532	55 1627	7 1/2 X 12	190 X 300	plain (homogenizer)	4	500	138.10	10	**124.29**
3034-89	01195	55 1627	7 1/2 X 12	190 X 300	write-on strip (homogenizer)	4	500	167.70	10	**150.93**
3034-92	01323	69 2041	7 1/2 X 15	190 X 380	plain	3	500	138.30	10	**124.47**
3034-90	01515	69 2041	7 1/2 X 15	190 X 380	write-on strip	3	500	166.00	10	**149.40**
3034-96	01445	92 2732	10 X 15	254 X 380	write-on strip extra large	4	250	135.60	10	**122.04**
3034-98	01446	123 3637	10 X 20	254 X 508	write-on strip extra large	4	250	162.20	10	**145.98**
3034-99	01447	184 5441	15 X 20	380 X 508	write-on strip extra large	4	100	103.20	10	**92.88**

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CONSUMABLES

Sterile Screw Cap Specimen Cup (Covidien)

Individually bagged with sterility paper tab. The paper tab cup ensures inside sterility until the tab is broken when the cap is unscrewed. It is ecologically designed to reduce packaging waste and is a good value. 4 ½ ounce (120 mL) capacity with molded-in graduations in ounces and milliliters. Leak proof positive closing screw cap. Frosted write-on area on the polyethylene cap.

Item No.	Description	Qty	Qty Break	Your Cost
3041-60	individually bagged, with paper tab	case/100	1-9	25.17
			10+	22.65
3041-80	paper sterility tab	case/100	1-9	23.42
			10+	22.12

Kimwipes® (Kimberly Clark)

Lint-free laboratory tissues in dispenser box.

Item No.	Sheet size	Sheets per box	Qty	List Price	% Off List	Qty Break	Your Cost
3066-05	4 1/2" X 8 1/2"	280	case/60 boxes	372.11	58	1-2	156.29
					64	3+	133.96
3066-15	15" X 17"	140	case/15 boxes	240.50	40	1-2	144.30
					48	3+	125.06

Filter Paper, Crepe Fluted Circles

Qualitative for gelatinous and coarse precipitates. Folded. Pack of 100.

Flow Rate	Fast
Particle Retention	25 µm
Porosity	Coarse
Diameter	240 mm

Item No.	List Price	% Off List	Your Cost
3009-20	99.06	20	79.25

CHEMICALS

Alcohol, Iso-Propyl
(2 Propanol)

For numerous laboratory procedures.

Item No.	Qty	Qty Break	Your Cost
4113-00	gallon	1-3	29.95
		Multi. of 4	22.85
4113-06	55 gal.		625.00

Alcohol, Iso-Propyl, 70%
(2-Propanol)

70% solution (v/v). Widely used for effective disinfecting.

Item No.	Qty	Your Cost
4113-20	gallon	26.56
4113-25	20 liter	93.50
4113-26	55 gallon	625.00

Alcohol, Denatured
(Ethyl Alcohol)

Specially denatured formula #3-A. In compliance with APHA *Standard Methods for the Examination of Dairy Products* for fat testing, and suitable for many other laboratory procedures.

Item No.	Qty	Qty Break	Your Cost
4109-00	gallon	1-3	40.40
		Muli. of 4	32.20

Deionized Water

Item No.	Qty	Qty Break	Your Cost
4118-10	4 liter bottle	1-3	12.30
		4+	10.25
4118-15	20 liter jerrycan	1	32.10
		2+	29.35

Isooctane ACS Grade

For use with the spectrophotometric method for measuring bitterness in beer.

Item No.	Size	Your Cost
3047-01	19 Liter Steel Can	319.09

Isooctane HPLC TLC Grade

For use with the spectrophotometric method for measuring bitterness in beer.

Item No.	Size	Your Cost
3047-02	4 liter	159.69

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ALL-AMERICAN Portable Sterilizers (WAFCO)

Steam pressure (259° F) operation is completely automatic. Complete, self-contained unit with an immersion heating element, automatic thermostatic control, automatic release valve, and pilot light. It connects to any outlet, is ready for use instantly, and ensures complete, efficient sterilization.

- 20 to 30 minute sterilization process
- Heavy cast aluminum cover and bottom construction
- Aluminum inner container with rack
- Flexible metal exhaust tube
- Dial gauge and control valve
- Metal-to-metal seal
- Over-pressure safety plug
- UL approval
- One year warranty.

3058-20

3058-22

Model	3058-20	3058-22
Gross Capacity	25 qt. / 24 liter	41 qt. / 39 liter
Overall Height	16 3/4" / 42.5 cm	19" / 48.3 cm
Bottom Height	12 1/4" / 31.2 cm	14 1/4" / 36.2 cm
Inside Diameter	12 5/8" / 32.1 cm	15 1/4" / 38.7 cm
Unit Weight	29 lbs / 13.2 kg	45 lbs / 20.4 kg
Inner Container Height	8 1/2" / 21.6 cm	10 1/4" / 26 cm
Inner Container Diameter	11 1/8" / 28.3 cm	14" / 35.6 cm
Inner Container Circumference	35 7/8" / 91.1 cm	44 1/2" / 113 cm
Inner Container Capacity	14.5 qt. / 13.7 liter	27.3 qt. / 25.8 liter
Inner Container Volume	835 in^3 / 13.688 cm^3	1578 in^3 / 25.856 cm^3
Shipping Weight	34 lbs / 15.4 kg	51 lbs / 23.1 kg

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Item No.	Mfr. Item No.	Capacity	Description	Power	List Price	% Off List	Your Cost
3058-20	50X	25qt./24 liter	Hi-power, 60-minute bell timer	120 V 50/60 Hz, 1650W	1035.00	25	**776.25**
3058-22	75X	41 qt./39 liter	Hi-power; 64% greater capacity	120 V 50/60 Hz, 1650W	1339.00	25	**1004.25**

Tuttnauer™ Autoclaves (Heidolph)

All models feature a stainless steel chamber, fast and slow exhaust, drying cycle and self-contained large capacity reservoir. For safety, a double-locking door, low water level protection, and automatic pressure safety valve. UL and CSA approved and ASME stamped.

The electronic models (items 3058-74 & 3058-78) feature microprocessor control and digital LCD display. Four fully adjustable, one-button programs provide easy, reproducible runs. Full user controls allows setting and storing of temperature (105-137°C. or 221-279°F.), sterilization time (0-59 minutes), drying time (0-99 minutes), units (°C or °F, psi or bar). Complete with "door open" and "low water" sensors. The mechanical model (item 3058-64) features analog controls and gauges. A 60 minute timer is provided and temperature can be set from 100-134°C./212-273°F.
Items 3058-76 and 3058-83 come complete with built-in printer. One year warranty includes parts and labor.

3058-64

3058-76

3058-83

Item No.	Mfr. Model No.	No. of Trays	Chamber (Dia.xDepth)	Voltage	Size	List Price	% Off List	Your Cost
3058-64	2540M	4	10"x18"	110	20"Dx20"Wx15"H	6968.00	15	**5922.80**
3058-74	2540E	4	10"x18"	110	20"Dx20"Wx15"H	8083.00	15	**6870.55**
3058-76	2540EP	4	10"x18"	110	20"Dx20"Wx15"H	8685.00	15	**7382.25**
3058-78	3870E	2	15"x27"	220	33"Dx26"Wx21"H	23056.00	15	**19597.60**
3058-83	3870EP	2	15"x27"	220	33"Dx26"Wx21"H	23193.00	18	**19018.26**

Replacement Door Gaskets

Item No.	Fits	Your Cost
3058-91	2540E/EP/M	**145.71**
3058-92	3870E/EP	**268.57**

Replacement Printer Paper

Item No.	Qty	Your Cost
023-21-220-0	per roll	**10.24**

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APPARATUS

3058-30

3058-32

Sterilmatic® Autoclave (Market Forge STM & STM-EL)

Item 3058-40 is an electric automatic steam pressure sterilizer. Sterilizing cycle is fully automatic, time-controlled and has a built-in temperature control which provides 250° F. (121° C.). Unit shuts off and exhausts pressure automatically at end of cycle. Slow exhaust may be selected for sterilizing liquids. Features include thermometer, safety valve, 0-30 lb. steam gauge, 0-60 minute timer and low water cut off. Size is 18 3/4" wide X 31" deep X 27 5/8" high. Interior is 16" in diameter and 26" long with a door opening of 13 1/2" wide X 11" high. Sterilizing compartment holds either three 12" X 20" X 2 1/2" trays or one 12" X 20" X 6" tray (trays available separately). For 208-240 V. specify 1 or 3 phase. One year warranty for parts and 90 days for labor. All models ship by common carrier.

Item 3058-41 has all the specifications of 3058-40 except it has an adjustable temperature control between 230°-250°F (110°-121°C.)

Item 3058-50 has all the specifications of 3058-40 except it has three programmable features including temperature control between 225°-250°F (107°-121°C.), time and venting.

Item No.	List Price	% Off List	Qty Break	Your Cost
3058-40	14919.35	16	1	**12532.25**
		20	2+	**11935.48**
3058-41	15083.24	16	1	**12669.92**
		20	2+	**12066.59**
3058-50	16981.86	16	1	**14264.76**
		20	2+	**13585.49**

Accessories

Item No.	Description	Size	List Price	% Off List	Qty Break	Your Cost
3058-43	Stainless steel Stand, with shelf	27 1/2"	1409.25	28		**1014.66**
3058-45	Stainless steel Trays	12" X 20" X 2 1/2"	289.90	10		**260.91**
3058-46	Stainless steel Trays	12" X 20" X 6"	500.56	5		**475.53**
3058-49	Replacement Door Gasket				1	**64.19**
					2+	**48.16**

BioClave™ Benchtop Autoclaves (Biomega)

Compact and economical

- Width of under 18 in. (under 14 in. for the BioClave Mini) - both models will fit comfortably on crowded bench tops.

- Sterilization chambers are surprisingly large, accommodating a variety of liquids, media, instruments, glassware, plasticware and other common laboratory items. Both models include a mechanical and electrical safety interlock that prevents the door from being opened until the pressure has reached zero PSI.

- With large digital displays and fully automatic operation, all segments of the sterilization cycle (fill, sterilize, exhaust and dry) commence and run to completion by simply pressing the start button.

- One year warranty.

BioClave 16 16 liter model offers three cycle options (standard programs), which are preset for the sterilization of liquids, wrapped instruments or unwrapped instruments/plasticware. A fourth option "Dry Only" is also available for additional drying time to be added to the end of a cycle. For special applications, requiring variations in cycle parameters, all settings on the BioClave 16 are fully adjustable.

BioClave Mini The 8 liter BioClave Mini is preprogrammed to meet basic sterilization needs. Although the temperature can be selected at either 121°C or 134°C, the sterilization time is fixed.

Model	BioClave 16	BioClave Mini
Chamber Volume	16 L	8 L
Chamber Dimensions	9 x 13.75 in. / 23 x 35 cm	6.7 x 12.5 in. / 17 x 31 cm
Tray Dimensions	6.5 x 10.75 in. / 16.5 x 27 cm	4.75 x 9.75 in./ 12 x 24.8 cm
Exterior Dimensions	22 x 17.5 x 15.7 in. / 56 x 44.5 x 40 cm	20 x 13.5 x 12.9 in. / 51 x 34 x 33 cm
Weight	89 lbs / 40 kg	74 lbs / 33 kg
Electrical	120/230V, 50-60 Hz / 1600W	

Item No.	Description	List Price	% Off List	Qty Break	Your Cost
3058-30	BioClave 16	4995.00	20	1	**3996.00**
			25	2+	**3746.25**
3058-32	BioClave 8	3645.00	20	1	**2916.00**
			25	2+	**2733.75**
3058-34	BioClave Printer	259.00	20		**207.20**
3058-36	Replacement Printer Paper	34.00	15		**28.90**

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Self-Contained Biological Indicator (Crosstex)

Validated 24-Hour Incubation!

These are a safe, convenient and easy to read self-contained biological indicator. It can be used to validate or monitor steam sterilization. It consists of a paper carrier containing Geobacillus stearothermophilus, population 10^5. The spore carrier and glass vial containing media are located inside a plastic tube. The cap permits steam to penetrate to the spore carrier while in a sterilization chamber.

Upon completion of a sterilization cycle, allow the tests to cool for approximately 15 minutes. The top of the plastic tube should be sealed by depressing the cap, and the media ampule crushed. Once this has been done, place the test in an incubator at 56°C. The tests should be checked periodically over the course of 24 hours for spore growth. Such growth is evident from the change in color of the media from purple to yellow. If growth in exposed indicators is visually observed, it must be assumed that the sterilization cycle was inadequate.

This product is ANSI/AAMI/ISO EN 11138-1 and USP (where applicable) compliant. The suspensions are labeled with a shelf life based on the organism. Each vial of Spore Suspension is accompanied by a Certificate of Analysis detailing the source, assayed population, resistance characteristics on paper carrier and expiration date. 24 month shelf-life from date of manufacture. Size is 13 x 61 mm.

Item No.	Qty	Qty	Your Cost
4300-05	pack/50	1	**96.00**
		2+	**86.40**

Self-Contained Biological Indicator Ampule (Crosstex)

Choose from populations of 10^4

These are a safe and easy to use self-contained biological indicator. The test is used to validate or monitor steam sterilization. It consists of a sealed ampule containing Geobacillus stearothermophilus spores, suspended in a modified Soybean Casein Digest broth. A pH indicator of bromocresol purple has been added to assist in detecting spore growth.

One or more ampules should be suspended or otherwise placed in the item to be sterilized, or in the sterilization chamber. At the end of the sterilization process, the tests should be carefully removed and allowed to cool. Once they have cooled (about 5 minutes) the tests should be incubated at 61°C ±2°C. No activation is required. The tests should be checked periodically for growth. Growth is indicated by a color change of purple to yellow and/or turbidity. This indicates a failure of the sterilization cycle. A control ampule (not exposed in the sterilizer) should be used to verify spore viability. Results available in 48 hours. Store at refrigerated temperature.

This product is ANSI/AAMI/ISO EN 11138-1 and USP (where applicable) compliant. The suspensions are labeled with a shelf life based on the organism. Spore Suspensions require storage under refrigerated conditions (2° - 8°C). Each vial of Spore Suspension is accompanied by a Certificate of Analysis detailing the source, assayed population, resistance characteristics on paper carrier and expiration date. 24 month shelf-life from date of manufacture. Contains 1 mL.

	Item No.	Description	Qty	Qty	Your Cost
❄	**4300-01**	10^4	pack/15	1-4	**51.72**
				5+	**46.61**
❄	**4300-02**	10^4	pack/50	1	**120.07**
				2+	**108.16**

Autoclavable Biohazard Disposal Bags

Heavy duty 2.0 mil polypropylene bags can be loaded with used pipets, petri dishes, etc. and then sterilized at a maximum of 135°C (275°F).

The printed bags have a sterilization indicator patch that darkens when subjected to steam sterilization, and also feature the standard biohazard warning symbol and precautionary procedures in four languages.

Unprinted

Item No.	Size inch/mm	Capacity	Qty	Qty Break	Your Cost
3057-09	24" x 36" / 610 x 910	22 gal/83.28 L	pack/100	1-4	**115.62**
				5+	**81.63**

Printed

Item No.	Size inch/mm	Capacity	Qty	Qty Break	Your Cost
3057-18	12" x 24"/ 300 x 610	3.5 gal/13.25 L	pack/100	1-4	**45.67**
				5+	**42.33**
3057-20	24" x 30" / 610 x 760	17 gal/64.35 L	pack/100	1-4	**114.76**
				5+	**106.36**
3057-22	24" x 36" / 610 x 910	22 gal/83.28 L	pack/100	1-4	**123.62**
				5+	**114.57**

Poxygrid® Biohazard Bag Holder (Bel-Art Scienceware)

Keeps bags open and ready for filling. Just insert and stretch the bag mouth over the top ring of this round holder: a separate hooked ring rests over the top to lock the bag in place. Orange epoxy coated steel wire.

Item No.	Diameter inches	Height inches	Fits bag	List Price	% Off List	YourCost
3057-28	7.3	20.5	12" x 24"	75.60	10	**68.04**
3057-30	14.6	23.5	24" x 30"	79.35	10	**71.42**
3057-32	14.6	29.5	24" x 36"	82.95	10	**74.66**

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Clavies® Autoclave Gloves (Bel-Art Scienceware)

Heat resistant up to 232°C (450°F) these all-cotton terry cloth Clavies® Gloves are excellent for handling hot objects out of the autoclave or oven. Replaces hazardous asbestos gloves. Gauntlets in two lengths provide wrist and forearm protection, and the bright orange color offers high visibility. Machine wash, tumble dry.

Item No.	Overall Length	Qty	List Price	% Off List	Your Cost
3057-12	13"	pair	32.65	15	**27.75**
3057-14	18.5"	pair	44.45	15	**37.78**

Autoclave Sterility Indicating Tape

Indicator bars in the tape turn black after 15 minutes of exposure to steam heat at 250°F. Lower temperatures and shorter periods of time will have no effect. 2160 inches per roll.

Item No.	Size	Qty	Qty Break	Your Cost
3057-73	3/4"	each	1-9	**6.27**
			10+	**4.49**
3057-75	1"	each	1-9	**8.11**
			10+	**5.80**

Autoclave Chamber Brite® Cleaner (Heidolph)

Pre-measured packet is sprinkled into chamber and a cycle is run. Cleans and de-scales steam sterilizers, including the chamber, reservoir and tubing. Optimizes autoclave function and extends operating life. Pack of 10.

Item No.	Qty Break	Your Cost
3057-40	1	**112.86**
	2+	**101.58**

Lab Incubators (Quincy Lab)

Affordability makes these incubators our most popular

Compact incubators have a see-through tinted acrylic door, aluminum interior, fiberglass insulation and baked-on enamel exterior. One fixed and one adjustable chrome-plated wire shelf and a six-foot cord are standard. Full eighteen month warranty on both models.

The microprocessor controlled digital model maintains accurate settings within .5°C, even in variant ambient or power supply conditions. A temperature tracking feature stores maximum process temperature deviation from set point in 0.1° units, acting as a paperless chart recorder and helping to confirm stability and continuity. The control has a large, low-glare four-digit LED display that can be read from across the room. The readout is selectable between F and C, and selectable in either an 1.0° or 0.1° display. A continuous self-diagnostic function prompts if a malfunction occurs.

The analog unit has a bimetal controller, illuminated on-off pushbutton and pilot light. A laboratory thermometer is included. 18 month warranty.

3055-60

3055-80

DIGITAL MODELS

Item No.	Capacity cu. ft.	Interior size W x H x D inches / cm	Exterior size W x H x D inches / cm	Temp. range	Controller accuracy	Shelf positions	List Price	% Off List	Qty Break	Your Cost
3055-60	0.7	12x10x10 30.5x25.4x25.4	13x15x10.75 33.0x28x27.3	5° above ambient to 60°C	±0.5°C	8	660.00	14 18	1 2+	**567.60** **541.20**
3055-70	2.0	18x16x12 45.7x40.6x30.5	19x21x13 48.3x53.3x33	5° above ambient to 60°C	±0.5°C	14	825.00	14 18	1 2+	**709.50** **676.50**

ANALOG MODELS

Item No.	Capacity cu. ft.	Interior size W x H x D inches / cm	Exterior size W x H x D inches / cm	Temp. range	Controller accuracy	Shelf positions	List Price	% Off List	Qty Break	Your Cost
3055-80	0.7	12x10x10 30.5x25.4x25.4	13x15x10.75 33.0x28x27.3	5° above ambient to 60°C	±0.1°C	8	395.00	14 18	1 2+	**339.70** **323.90**
3055-90	2.0	18x16x12 45.7x40.6x30.5	19x21x13 48.3x53.3x33	5° above ambient to 60°C	±0.1°C	14	515.00	14 18	1 2+	**442.90** **422.30**

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MyTemp™ Mini Digital Incubators
(Benchmark Scientific)

Simply set and walk away!

Digital temperature controls eliminate the need for external thermometers and repetitive "fine tuning" of an analog control knob. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down, -HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.

Temp. Range	Ambient +1°C to 60°C **(H model)** Ambient -15°C to 60°C* **(HC model)**
Temp. Accuracy:	0.5°C (at 37°C)
Temp. Uniformity:	+/- 1°C (at 37°C)
Temp. Increment:	1°C
Platform Dimensions:	9.5 x 11.5 in./ 23.5 x 29 cm
Operating Temp. Range	+4 to +65°C
Exterior dimensions:	13.2 x 14.5 x 18.7 in. / 33.5 x 37 x 47.5 cm
Interior: dimensions	10.3 x 9.3 x 12.8 in. / 26 x 23.5 x 32.5 cm
Capacity:	20L, (0.75 cu. ft.)
Weight:	15 lbs / 6.5 kg
Electrical:	120V, 60Hz
Warranty:	2 Years

* Minimum temperature is approx. 7°C in 22°C room temp.

Item No.	Mfr. Item No.	Description	List Price	% Off List	Qty Break	Your Cost
3055-00	H2200-H	Digital Incubator, Heat Only	449.00	15	1	**381.65**
				20	2+	**359.20**
3055-01	H2200-HC	Digital Incubator, Heat and Cool	695.00	15	1	**590.75**
				20	2+	**556.00**

Vortex Mixer

Economical and powerful

BenchMixer™ provides smooth instant mixing of even the largest sample sizes, including full 50 mL tubes. The unique counter balance system creates maximum vortex action, while minimizing noise and vibration. Other features include: "no-walk" suction feet, cold room/incubator compatibility and spill-proof electronic controls.

- Powerful motor for INSTANT vortexing
- Q-Drive™ dynamic balance system
- Touch or continuous operation
- Variable speed control from 200 to 3200 rpm

Speed Range	200 to 3200 rpm
Operating Modes	Touch or continuous
Operating Temp Range	+4°C to +65°C
Dimensions	5 x 6.3 x 6.7 in (13 x 16 x 17 cm)
Weight	8.4 lbs / 3.8 kg
Electrical	115V AC
Warranty	2 years

Item No.	Description	List Price	% Off List	Qty Break	Your Cost
3067-83	Vortex Mixer	239.00	15	1	**203.15**
			20	2+	**191.20**
3067-84	3" Flat Head	29.50	15		**25.08**

3067-80

3067-77

3067-74

Digital Magnetic Stirrer, Hot Plate, Hot Plate Magnetic Stirrer

Exceptionally durable, chemical resistant white ceramic work surface.

The digital hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. Their space-efficient design (7 X 10.5 in. footprint) makes them ideal for use on crowded bench tops and inside hoods.

Advanced microprocessor controls allow quick, precise adjustment of speed and temperature. The large, back-lit LCD display provides constant visualization of the speed and temperature while a safety LED indicates when the top plate is above 50˚C. In addition, an optional probe is available for applications that require precise temperature control. When connected, the probe provides direct feedback to the microprocessor, which continuously adjusts and maintains the selected temperature in the sample within +/- 0.5˚C. 24 month warranty.

Item No.	3067-74	3067-77	3067-80
Description	Hot Plate Stirrer	Hot plate	Stirrer
Temp Range	+5 - 380°C / 122 – 716°F	+5 - 380°C / 122 – 716°F	N/A
Stirring Speed Range, RPM	200 – 1500	N/A	200 – 1500
Shipping Weight, Lbs.	5	5	5
Surface Depth x Width	6.5" x 6.5" (16.6 cm x 16.6 cm)		
Size DxHxW	7" x 10.5" x 4" (18cm x 26cm x 10.1cm)		
Electrical Data	120V, 50-60Hz 500W		

Item No.	List Price	% Off List	Qty Break	Your Cost
3067-74	440.66	20	1	**352.53**
		30	2+	**308.46**
3067-77	254.18	20	1	**203.34**
		30	2+	**177.93**
3067-80	292.18	20	1	**233.74**
		30	2+	**204.53**

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Scienceware® Stirring Bar
(Bel-Art Scienceware 37110)
Octagon, Teflon®-coated, with integral pivot ring.

Item No.	Size	List Price	% Off List	Your Cost
3068-15	1" x 5/16"	5.25	20	**4.20**
3068-20	1 1/2" x 5/16"	5.80	20	**4.64**
3068-25	2" x 5/16"	7.25	20	**5.80**

Spinbar® Magnetic Retrievers
(Bel-Art Scienceware)
Polyethylene rod. 3/8" (9.5mm) diameter with hang-up loop.

Item No.	Size	List Price	% Off List	Your Cost
3310-05	12" (305mm)	14.85	20	**11.88**
3310-10	18" (457mm)	17.20	20	**13.76**

Magnetic Stir Bar Arrester (Bel-Art Scienceware)
Place this device against the bottom of your container prior to emptying to hold the stir bar in place. 2" (51mm) diameter X 3/8" (9.5mm) thick.

Item No.	List Price	% Off List	Your Cost
3310-20	22.35	20	**17.88**

Extra Strong Stir Bar
(Bel-Art Scienceware)
Reduce spinout in viscous solutions
- 3X stronger stirring power
- Samarium Cobalt magnet
- Green Teflon® PTFE coated

Item No.	Mfr Item No.	Size inches/ mm	List Price	% Off List	Your Cost
3068-07	37102-1238	1/2 x 3/8 / 13 x 9.5	8.40	20	**6.72**
3068-08	37102-138	1 x 3/8 / 25.4 x 9.5	12.35	20	**9.88**
3068-09	37102-0238	2 x 3/8 / 51 x 9.5	26.20	20	**20.96**
3068-10	37102-0003	3 x 1/2 / 76 x 130	30.35	20	**24.28**

Spinpak® Stirring Bar Assortment
(Bel-Art Scienceware 37163)
Color-coded. Six octagon stirring bars, Teflon® PTFE coated with pivot ring. Contains two of each: yellow, red, blue, all 1" x 5/16".

Item No.	List Price	% Off List	Your Cost
3068-11	40.65	20	**32.52**

Non-Contact Stirring Bar Retriever
(Bel-Art Scienceware)
Removes stir bar magnets from the outside of vessel. 3" (76mm) long. Polyethylene.

Item No.	Your Cost
3310-15	**10.09**

Compact Scale (Ohaus CS Series)

Ohaus Compact Scales are for when cost matters. They have a wide variety of applications, more than any other scale in their class. The three portable models range in capacities from 200g to 5000g, and are perfect for use in light production or in the field. Easy operation, long battery life, low battery indicator, overload protection to protect weighing cell from damage, auto shut-off, rugged plastic construction and tactile feedback keypad.
- Sleek, low profile design
- Large high contrast display
- Energy-saving auto shut-off feature
- Battery (included) or optional AC adaptor
- Stainless steel platform is removable for easy cleaning
- Designed with superior RF protection to deliver accurate and stable results when used in production areas or near cellular devices

Item No.	1067-17	1067-10	1067-18
Mfr. Item No.	CS200	CS2000	CS5000
Capacity x Readability	200g x 0.1g 0lb:07.50oz x 0.01oz	2000g x 1.0g 4lb:06.55oz x 0.05oz	5000g x 1.0g 11lb:00.4oz x 0.1oz
Repeatability (Std. dev.) (g)	0.1	1.0	1.0
Linearity (g)	±0.1	±1.0	±1.0
Weighing units	g, lb, oz		
Zero range	to capacity by subtraction		
Stabilization time	3 seconds		
Optimum operating temp.	64°-77°F/18°-25°C		
Power requirements	3-AA alkaline batteries (included) or optional AC adapter		
Calibration	digital calibration from keypad		
Auto shut-off	5 minutes no activity (battery operation only)		
Display (in/mm)	LCD (0.4/11)		
Pan size L x W (in/cm)	5.75 x 5.25 / 14.5 x 13.3		
Dimensions L x W x H (in/cm)	8.0 x 5.5 x 1.5 / 20.3 x 14.0 x 3.8		
Net Weight (lb/kg)	.91 / .47		
Warranty	One year		

Item No.	Description	List Price	% Off List	Qty Break	Your Cost
1067-10	2000 g x 1.0 g	140.00	23	1	**107.80**
			25	2+	**105.00**
1067-17	200 g x 0.1 g	140.00	23	1	**107.80**
			25	2+	**105.00**
1067-18	5000 g x 1.0 g	165.00	23	1	**127.05**
			25	2+	**123.75**
1067-20	AC adapter				**48.00**

ANALYTICAL EQUIPMENT

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Orion Star® A210 Series Benchtop pH Meter
(Thermo Scientific)

- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- AUTO-READ® locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Plain language screen prompts, soft keys that update for easy selection and a multilanguage interface
- Fix calibration errors without a complete recalibration with calibration editing
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software
- Mix samples without a stir plate with direct control of the Orion Star stirrer probe (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Included universal AC power adapter, or use four AA batteries (sold separately)
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem

pH Range	-2.000 to 20.000
pH Resolution	0.1, 0.01, 0.001
pH Relative Accuracy	±0.002
mV Range	±2000.0
mV Resolution	0.1
mV Relative Accuracy	±0.2 mV or ±0.05% of reading whichever is greater
Temperature Range	-5 to 105
Temperature Resolution	0.1
Temperature Relative Accuracy	±0.1
Inputs	BNC, reference pin, 8-pin mini-DIN, stirrer port
Battery Life	2000 hours
Certifications	CE, TUV, FCC Class A limits
Warranty	3 year meter replacement

Item No.	Description	Mfg Item No.	List Price	% Off List	Qty Break	Your Cost
3801-15	pH Benchtop Meter only	StarA2110	838.00	15	1	**712.30**
				22	2+	**653.64**
3801-16	pH Benchtop Meter Kit includes:	StarA2115	1140.00	15	1	**969.00**
				22	2+	**889.20**
	Ross Ultra Triode Refillable Electrode (Weber #3802-12)	8302BNUMD				
	pH 4.01 Buffer (475 mL)	910104				
	pH 7.00 Buffer (475 mL)	910107				
	pH 10.01 Buffer (475 mL)	910110				
	pH electrode storage solution	810001				
	Electrode cleaning solution (4 x 30 mL)	900023				

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Orion Star® A110 Series Benchtop pH Meter
(Thermo Scientific)

- Up to 3 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- AUTO-READ® locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Large, informative screen clearly shows the main information, including pH or mV reading, temperature, meter mode, calibration information, and power source
- Easily recall calibration slope data for procedure checks
- Non-volatile memory holds up to 50 data points with time and date stamp
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Included universal AC power adapter, or use four AA batteries (sold separately)
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem

Specifications	
pH Range	-2.000 to 16.000
pH Resolution	0.1, 0.01
pH Relative Accuracy	±0.01
mV Range	±1600.0
mV Resolution	0.1
mV Relative Accuracy	±0.2 mV or ±0.05% of reading whichever is greater
Temperature Range	-5 to 105
Temperature Resolution	0.1
Temperature Relative Accuracy	±0.1
Ambient Operating Temperature	5 to 45°C (-15 to 113°F)
Inputs	BNC, 8-pin mini-DIN
Power Requirements	AC adaptor (included) 4 AA (sold separately) 2000 hours life; replacement AC adapter # 1068-22
Certifications	CE, TUV, FCC Class A limits
Warranty	3 year meter replacement

Item No.	Description	Mfg Item No.	List Price	% Off List	Qty Break	Your Cost
3801-21	pH Benchtop Meter only	StarA1110	538.00	15	1	**457.30**
				22	2+	**419.64**
3801-22	pH Benchtop Meter Kit includes:	StarA1115	796.00	15	1	**676.60**
				22	2+	**620.88**
	Orion Triode Refillable Electrode (Weber #3802-17)	9157BNMD				
	pH 4.01 Buffer (475 mL)	910104				
	pH 7.00 Buffer (475 mL)	910107				
	pH 10.01 Buffer (475 mL)	910110				
	pH electrode storage solution	910060				
	Electrode cleaning solution (4 x 60 mL)	900024				
3801-20	pH Benchtop Meter Kit includes:	StarA2116	1170.00	15	1	**994.50**
				22	2+	**912.60**
	ROSS Ultra Triode epoxy-body pH/ATC electrode	8157BNUMD				
	ROSS pH buffer and solution kit	810199				

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ANALYTICAL EQUIPMENT

Benchtop pH/mV/°C Meter (Oakton pH700)

Datalogging allows you to store and recall up to 100 data set

- Compact footprint is over 40% smaller than other benchtop meters
- Large display permits easier readout viewing
- Large, dual-display LCD
- Automatic temperature compensation (ATC) maintains reading accuracy
- Five-point pH calibration, with automatic buffer recognition HOLD, ATC, and electrode diagnostics
- BNC connector

Specifications	
pH Range	-2.000 to 16.000
pH Resolution	0.01
pH Relative Accuracy	±0.01
mV Range	±2000.0
mV Resolution	0.1
mV Relative Accuracy	±0.2 mV
Temperature Range	0 to 100°C
Temperature Resolution	0.1°C
Temperature Relative Accuracy	±0.3°C
Warranty	3 year meter replacement

Item No.	Description	List Price	% Off List	Your Cost
3816-15	Meter only	476.00	20	**380.80**

NOTE: Electrode and electrode holder available separately.

pH 5+ Hand-Held Meter (Oakton)

High ±0.01 pH accuracy at economical prices

- Reads pH and temperature
- All push button operation
- Auto buffer recognition
- Use with most pH electrodes with BNC connectors
- Hold function; Auto-off
- Automatic Temperature Compensation (ATC)
- Three-point pH calibration
- Includes (4) 1.5 V AA batteries

The microprocessor-based pH 5+ meter is OAKTON's most economical portable pH meter, yet it gives you the same high accuracy and reliability of other portable meters! Use this meter to take routine pH and temperature measurements. Meter includes a protective rubber boot that also acts as a meter stand.

Specification	pH	Temperature
Range	0.00 to 14.00	0.0 to 100.0°C
Resolution	0.01	0.1°C
Accuracy	±0.01	±0.5°C
Calibrations	5 points (1.68, 4.01, 7.01, 10.01, 12.45)	Offset 0.1°C increments

Item No.	Description	List Price	% Off List	Your Cost
3815-24	pH 5+ Meter with ATC probe, rubber boot, and batteries. Purchase electrode separately. 6 3/16" x 3 3/8" x 1 11/16" (15.7 x 8.5 x 4.2 cm)	241.00	20	**192.80**
3815-25	pH 5+ Meter with single-junction, sealed, epoxy-body electrode, ATC probe, rubber boot, and batteries	282.00	20	**225.60**
3815-26	pH 5+ Meter kit with "All-in-one" pH electrode, pH buffer solutions, sample bottles, rubber boot, batteries, and carrying case	367.00	20	**293.60**

Item No.	Description	List Price	% Off List	Your Cost
3815-33	ATC probe	48.25	20	**38.60**
3815-31	pH electrode, single junction, epoxy body, sealed	52.25	20	**41.80**
3815-28	All-in-one pH electrode, single junction, epoxy body, sealed	93.25	20	**74.60**
3815-29	All-in-one pH electrode, double junction, epoxy body, sealed	137.00	20	**109.60**

ANALYTICAL EQUIPMENT

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edge™ Tablet pH Meter Kit (Hanna)

A pH meter with the power of a tablet computer for only $399!

- The design works well in your hand, on a lab bench or mounted on a wall
- Just 1⁄2" thick and weighs less than 9 ounces
- Wide viewing angle and 5.5" LCD screen
- Sensitive capacitive touch keypad
- Powerful data logging and computer connectivity
- Digital electrodes have a built in microchip and are auto-recognized, providing sensor type, calibration data and a serial number
- Electrodes connect to the meter with an easy to plug-in 3.5mm connector (all electrodes are specific to this tablet meter)
- Electrodes feature CAL-CHECK® to warn you if the electrode you are using is not clean or if your buffers are contaminated during calibration.
- Stored pH calibration information includes: calibrated buffers, date, time, offset and slope characteristics of the electrode
- Rechargeable 8 hour life battery charges through USB port cable or power adaptor (both included)

Item No.	Mfr Item No.	Description	Your Cost
3804-55	HI2020-01	pH kit includes Single ceramic, double junction, high temperature glass, refillable pH electrode with double junction (Weber #3804-56)	409.00
		• Benchtop docking station with electrode holder, wall-mount cradle, USB cable, 5 VDC power adapter and instruction manual • 2 sachets of pH 4 buffer solutions • 2 sachets of pH 7 buffer solutions • 2 sachets of pH 10 buffer solutions • Electrode cleaning solutions • Quality certificate	

Item No.	Mfr Item No.	Description	Your Cost
3804-56	HI11310	Single ceramic, double junction, refillable pH electrode with temperature sensor	145.00
3804-57	HI11311	Single ceramic, double junction, refillable pH electrode with temperature sensor and matching. Features Sensor Check which will notify you of glass breakage.	160.00
3804-58	HI12300	Double junction, gel filled, PEI body, pH electrode with temperature sensor	105.00
3804-59	HI12301	PEI body, double junction, gel filled pH electrode with temperature sensor and matching pin	115.00
3804-60	HI10530	Triple ceramic, single junction, low temperature glass, refillable pH electrode with conical tip and temperature sensor. Recommended for fats and creams, and soil samples	175.00
3804-61	HI10430	Single ceramic, double junction, high temperature glass, refillable pH electrode with double junction Recommended for paints, solvents, strong acids and bases, high conductivity samples, and Tris buffer	185.00

Range	standard mode: -2.00 to 16.00 pH, -2.000 to 16.000 pH; ±1000 mV; basic mode: -2.00 to 16.00 pH; ±1000.0 mV
Resolution	standard mode: 0.01 pH; 0.001 pH; basic mode: 0.1 mV
Accuracy	±0.01 pH; ±0.002 pH; ±0.2 mV
Calibration Points	5 in standard mode; 3 in basic mode
Calibration Buffers	standard mode: 1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45 and two custom buffers basic mode: 4.01, 6.86, 7.01, 9.18, 10.01
Temperature Compensation	ATC (-5.0 to 100.0ºC; 23.0 to 212.0°F)
Electrode Diagnostics	standard mode: probe condition, response time and out of calibration range, glass and reference junction diagnostics (HI 11311 & HI 12301 only)
Temperature	
Range	-20.0 to 120.0ºC; -4.0 to 248.0°F
Resolution	0.1°C; 0.1°F
Accuracy	±0.2°C; ±0.4 °F
Additional Specifications	
Logging	stores up to 1000 records: 200 records (log-on-demand and stability logging); 600 records interval logging
Connectivity	1 USB port for storage; 1 micro USB port for charging and PC connectivity
pH Electrode (included)	glass body pH electrode with 1/8"(3.5mm) 4. conductor connector and 1 m (3.3') cable
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Power Supply	Rechargeable 8 hour life battery charges with USB cable or 5 VDC adapter (both included)
Dimensions	202 x 140 x 12.7mm (8" x 5.5" x 0.5")
Weight	250 g (8.82 oz.)
Warranty	Two years on the meter and six months on the electrodes

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ANALYTICAL EQUIPMENT

ExStik™ Pocket pH Meter
(Extech PH100)

Waterproof flat surface electrode works with liquids, semi-solids or solids!

This pocketsize meter has many advanced features:

- Simultaneous temperature display with a range of 23° to 194°F (-5 to 90°C).
- The flat electrode tests as little as one drop and allows for a wide range of direct surface pH measurement.
- Memory stores and recalls 15 labeled readings and saves last calibrated value.
- Analog bargraph originates at neutral point (pH 7) and fluctuates to the left or right depending upon pH value.
- Smart chip alerts user to recalibrate with "CAL" display, and predicts pH electrode performance with "RENEW" indicator when replacement is needed.
- Display indicates when reading has stabilized.
- Annunciator lists buffer values of last calibration.

Complete with protective sensor cap, sample cup, Includes four CR2032 lithium ion batteries; replacement 3039-51 and neck-strap.

SPECIFICATIONS	
Range	0.00 to 14.00
Resolution	0.01
Accuracy	±0.01
Replaceable Electrode	Yes
Waterproof/Splash Resistant	Waterproof
Calibration Button	Yes—3 pts
Hold Button	Yes
Battery Life	Long-life
Auto-Off	Yes
Size, inches/mm	6.8" x 1.5"; 173 x 38 mm
Warranty	One year

Item No.	Description	Your Cost
3805-70	Waterproof	108.32
3805-71	Replacement Electrode	48.74

Refillable ExStik® Pocket pH Meter
(Extech PH110)

Has all the same features as the PH100 (3805-70) but with a refillable pH electrode that can be reused by refilling the reference solution once it depletes. This allows for continuous high accuracy using fresh reference solution, and eliminates the concern of electrode shelf life. Refilling is fast and easy.

Specifications	
Range	0.00 to 14.00
Resolution	0.01
Accuracy	±0.01
Replaceable Electrode	Yes
Waterproof/Splash Resistant	Waterproof
Calibration Button	Yes—3 pts
Hold Button	Yes
Battery Life	Long-life
Auto-Off	Yes
Size, inches/mm	6.8" x 1.5"; 173 x 38 mm

Item No.	Your Cost
3805-72	129.98

Refillable electrode

Replacement Electrode for 3805-72 (Extech PH115)

Item No.	Your Cost
3805-74	59.57

Reference Refill Solution for 3805-72 (Extech PH113)

Includes 1.5mL bottle KCl, 2 reference junctions and 2 removal tools.

Item No.	Your Cost
3805-60	20.57

Waterproof Large Display pH Pen (Sper Scientific)

Highly stable and accurate readings with large LCD display. Designed for simple one-hand operation. Automatically calibrates to pH 4, 7, 10 buffers and can be adjusted to recognize non-standard buffers as well. Features hold function, and auto power off with low battery indicator. The case is IP65 waterproof, and will float if accidentally dropped into the water. Includes four LR44 button cell batteries; replacement #3029-60 and a built-in electrode which is kept moist with a protective cap. One year warranty.

Item No.	3806-70	3806-72
Range	2.00 to 12.00	0.00to 14.00
Resolution	0.1	0.1
Accuracy	±0.3	±0.2
Replaceable Electrode	No	No
Waterproof/ Splash Resistant	Waterproof	Waterproof
Calibration Button	Yes—3pts	Yes—3pts
Hold Button	Yes	Yes
Battery Life	>500 hr	>500 hr
Auto-Off	Yes	Yes
Size, inches/mm	6.5 x1.5" 165x38mm	6.5 x1.5" 165x38mm

Item No.	Mfr Item No.	Description	List Price	% Off List	Your Cost
3806-70	850050	non-ATC	38.00	20	30.40
3806-72	850051	ATC	46.00	20	36.80

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3806-09   3806-31   3806-35

Waterproof pHTestrs™ and pH Spear (Oakton)

Large screen pHTestrs have replaceable sensors for easy maintenance. Double-junction electrode sensors offer a clog-resistant Kynar® junction and a recessed, glass pH bulb to protect against breakage. Waterproof design even floats. The keypad clicks to confirm operation, and allows access to a variety of functions. Calibrate up to three pH points with the auto-buffer recognition at both USA and NIST standard buffers. Additional features include an Automatic Temperature Compensation (ATC) hold function, auto-off function, self-diagnostic error messages, and a three-segment battery life indicator.

3806-55

pHTestr 30 displays both the pH and temperature simultaneously. Temperature is switchable between °F and °C. Includes four LR44 button cell batteries; replacement #3029-60. One year warranty.

Item No.	3806-09	3806-31	3806-35	3806-55
Range	-1.0 to 15.0	-1.0 to 15.0	0.00 to 15.0	-1.0 to 15.0
Resolution	0.1	0.01	0.01	0.01
Accuracy	±0.1	±0.01	±0.01	±0.01
Replaceable Electrode	Yes	Yes	Yes	Yes
Waterproof/ Splash Resistant		Waterproof		
Calibration Button		Yes—3pts		
Hold Button		Yes		
Battery Life		>500 hr		
Auto-Off		Yes		
Size, inches/mm	5.9x1.5" 150x38mm	6.5 x1.5" 165x38mm	6.5 x1.5" 165x38mm	6.5 x1.5" 165x38mm

Item No.	Mfr Item No.	Description	List Price	% Off List	Your Cost
3806-09	35634-10	pHTestr 10, 0.1 pH resolution	99.25	20	**79.40**
3806-31	35634-20	pHTestr 20, 0.01 pH resolution	112.00	20	**89.60**
3806-35	35364-30	pHTestr 30, 0.01 pH resolution with temperature display	122.00	20	**97.60**
3806-55	35634-40	pH Spear, for soft and semi-solids, 0.01 pH resolution	319.00	20	**255.20**
3806-40	35624-38	replacement electrode for pHTestrs™	75.25	20	**60.20**
3806-56	35634-50	replacement electrode for pH Spear	197.00	20	**157.60**

Sure-Flow Epoxy pH Electrode (Orion 9165BNWP)
Refillable; Waterproof BNC

Recommended Use: General purpose, ideal for dirty, difficult samples such as soils, sludges, colloids, viscous solutions. Detachable bulb guard included. Easy to clean junction never clogs. Ag/AgCl internal reference system.

Item No.	List Price	% Off List	Qty Break	Your Cost
3802-35	296.00	18	1	**242.72**
		20	2+	**236.80**

ROSS® Triode™ Ultra pH/ATC Glass pH Electrode (Thermo Orion 8302BNUMD)
Refillable; BNC-MiniDin

Recommend use: General purpose pH where long-life is a must. Ultra means double the life and double the warranty.

Item No.	List Price	% Off List	Qty Break	Your Cost
3802-12	583.00	18	1	**478.06**
		20	2+	**466.40**

Triode™ pH/ATC Epoxy pH Electrode (Thermo Orion 9157BNMD)

Refillable; BNC-MiniDin
Recommend use: Routine pH.

Item No.	List Price	% Off List	Qty Break	Your Cost
3802-17	378.00	18	1	**309.96**
		20	2+	**302.40**

All-in-One, Gel Filled, Epoxy pH Electrodes (Oakton 35811-71/72)
Sealed non-refillable; BNC/phono
Six month warranty.
Recommend Use: Economical general purpose electrode. For use with newer Oakton meters.

Item No.	Description	List Price	% Off List	Your Cost
3815-28	Single-junction	93.25	20	**74.60**
3815-29	Double-junction	137.00	20	**109.60**

Gel Filled Epoxy pH Electrode (Oakton 35801-00)
Sealed-non refillable; BNC
One year warranty.
Recommended Use: Economical electrode for field, clean water, and general purpose applications.

Item No.	List Price	% Off List	Your Cost
3815-31	52.25	20	**41.80**

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ANALYTICAL EQUIPMENT

Hydrion® pH Plastic Test Strips
(Micro Essentials)

Packaged in convenient flip-top vials
Strips provide instant results with a clear bright single color match across the pH spectrum.

Item No.	Description
3077-02	0-14 pH with readings at each whole pH
3077-06	0-6.0 pH with readings at each half and whole pH number
3077-08	5.5-8 pH with readings at every .2 to .3 interval
3077-07	5-9 pH with readings at each half pH number
3077-03	6.5-13 pH with readings at each half and whole pH number

Item No.	Mfr Item No.	List Price	% Off List	Qty Break	Your Cost
3077-02	9800	16.67	30	1-5	11.67
			40	6+	10.00
3077-06	9200	16.67	30	1-5	11.67
			40	6+	10.00
3077-08	9700	16.67	30	1-5	11.67
			40	6+	10.00
3077-07	9400	16.67	30	1-5	11.67
			40	6+	10.00
3077-03	9600	16.67	30	1-5	11.67
			40	6+	10.00

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Weber™ pH Buffers are Color-Coded, Highly Accurate and a Super Best Buy

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pH Buffer Solution, Color-Coded.

Accurate within ±0.01 pH units of specified value at 25°C. Provided with temperature pH conversion chart printed on the container. 500 mL size packaged in polyethylene bottle with flip-top dispensing cap; 4 liter and 20 liter sizes come in convenient cube container with dispensing spigot.

Item No.	Size	Qty Break	Your Cost
pH 2, clear (no color code)			
3076-02	500 mL	1-11	9.28
		Multiples of 12	7.73
pH 4, color coded RED			
3076-04	500 mL	1-11	9.28
		Multiples of 12	7.73
3076-14	4 liter	1-4	41.03
		5+	36.90
3076-15	4 liter cube-pk	1-4	45.90
		5+	41.30
3076-24	20 liter	1-2	80.54
		3+	71.91
pH 5, clear (no color code)			
3076-05	500 mL	1-11	9.28
		Multiples of 12	7.73

Item No.	Size	Qty Break	Your Cost
pH 7, color coded YELLOW			
3076-07	500 mL	1-11	9.28
		Multiples of 12	7.73
3076-17	4 liter	1-4	41.03
	bottle	5+	36.90
3076-18	4 liter	1-4	45.90
	cube-pk	5+	41.30
3076-27	20 liter	1-2	80.54
		3+	71.91
pH 10, color coded BLUE:			
3076-10	500 mL	1-11	9.28
		Multiples of 12	7.73
3076-20	4 liter	1-4	41.03
	bottle	5+	36.90
3076-21	4 liter	1-4	58.00
	cube-pk	5+	52.05
3076-30	20 liter	1-2	80.54
		3+	71.91

Electrode Reference Fill Solution

Item No.	Mfr. Item No.	Description	Application	Size	List Price	% Off List	Your Cost
3803-00	Orion 900011	Standard Ag/AgCl solution	Single junction pH electrodes; not for use with solutions that react with silver	5 X 50 mL	101.00	15	85.85
3803-10	Orion 810007	3 M KCl solution	ROSS™ double junction pH electrodes	5 X 60 mL	98.90	15	84.07

General Electrode Cleaning Solution

Item No.	Mfr. Item No.	Description	Application	Size	List Price	% Off List	Your Cost
3803-20	Oakton 00653-06	Cleaning solution	All electrodes	473 mL (1 pint)	13.75	15	11.69

Electrode Storage Solution

Item No.	Mfr. Item No.	Description	Size	Your Cost
3809-51	Hanna HI70300L	Storage Solution	500 mL (16.9 oz)	14.00

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AquaMate 8000 UV-Vis Spectrophotometer
(Thermo Scientific Orion)

Highly versatile with a compact design, intuitive operation and innovative features

This high quality, reliable spectrophotometer incorporates advanced features and functions for the ultimate flexibility in operation. Operators can readily create their own custom methods. An included USB stick contains over 260 preprogrammed methods for easy and convenient measurements using Orion AQUAfast, Merck, CHEMetrics or Hach chemistries. You can download any or all of the preprogrammed methods you want.

Versatility:
- Pre-programmed methods can also be adapted for new chemistries or operators can create their own custom methods and calibration curves
- Instruments allow a one-point adjustment on any preprogrammed method to correct for variations in batch reagent chemistries
- Wide variety of vial sizes can be used, including 10mm square vials, 20 and 50mm rectangular vials and an adjustable round vial holder that accommodates 13, 16, and 24mm round vials
- Three USB connections provide the options to store methods and data to a USB memory stick, transfer data to a computer, and print hard copy data to an external printer
- System is compatible with ink jet and laser printers with HP PCL 5 or greater

Verification:
- Performance verification tests ensure wavelength accuracy and instrument functionality
- Each verification report gives the time, date and instrument serial number in accordance with GLP and GMP
- Built-in wavelength accuracy test is compatible with either the internal lamp or external calibrated standards
- Built-in test methods for stray light, noise and resolution are available to validate instrument performance further

Optical Design	Dual beam – internal reference detector
Optical Detector	Type Dual silicon photodiodes
Spectral Bandwidth	1.8 nm
Lamp (typical life)	Xenon flash lamp (5 years)
Photometric:	
Accuracy (Photometric)	±0.005A at 1.0A; <0.00025 at 0.0A
Drift	<0.0005A/hr
Linearity	Up to 3.5A at 260nm
Noise	<0.00050 at 1.0 A; <0.00080 at 2.0 A RMS at 260nm
Range (Photometric)	-0.5 to 5.0 A ; -1.5 to 125 %T; ±9999 C
Stray Light	<0.08 %T at 220nm and 340nm;
	<0.1 %T at 340nm and 400nm;
	<1.0 %T at 198nm Voltage 100 to 240V
Wavelength:	
Accuracy	±1.0nm
Min. Data Interval	0.2; 0.5; 1.0; 2.0; 3.0; 5.0nm
Range	190 to 1,100nm
Repeatability	±0.5nm Wavelength Scan Speed 10 to 4,200nm/min
Scanning Speed	10 to 4,200 nm/nm
Slew Speed	11,000nm/min

Item No.	Mfr ItemNo.	Description	List Price	% Off List	Qty Break	Your Cost
3811-00	AQ8000	AquaMate 8000 spectrophotometer	7088.00	17	1	5883.04
				22	2+	5528.64

Includes: Methods on USB memory stick , Three-position cell holder , User documentation , Dust cover , USB cable , 110V, 220V and 240V power cords .

UV-Transparent Disposable Cuvettes
(BrandTech Scientific)

Eliminate the need for cleaning, and the associated risk of sample carryover and cross-contamination. BRAND's UV-transparent, disposable cuvettes replace expensive, fragile quartz cuvettes and are excellent for DNA, RNA, and protein analysis between 230-900nm. Made from a proprietary polycyclical olefin, they can be used with most polar solvents, acids and alkaline solutions.

Filling Volume Min. / Max.: 2.5mL / 4.5mL
Window Dimensions: 10 x 35 mm

Item No.	Mfr Item No.	Light Path, mm	Qty	List Price	% Off List	Your Cost
2013-80	759170	10	pack/100	83.96	18	68.85

Spectrophotometer Cuvette

Manufactured from Spectrosil quartz for accurate readings over the entire UV range to near infrared range. Due to the fully heat-fused construction (no intermediate materials or adhesives) and careful annealing to remove any strain, there is no optical or physical distortion of the two optically polished windows. Matched cells fall well within the accepted pathlength standard of ±0.01mm. Cells exhibit a transmission tolerance within 1.5% at 200nm.

- Far UV Quartz
- Wavelength Range of 170–2700 nm
- Fully Heat-Fused Construction
- External dimensions: 12.5W x 12.5L x 45H mm
- Internal dimensions: 10W x 10L mm
- Sold individually

Item No.	Cover Type	Pathlength	Sample Volume	Your Cost
2011-71	Flat Lid	10 mm	3.5 mL	120.67

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ANALYTICAL EQUIPMENT

Orion Star A3235
Dissolved Oxygen Meter Kit
(Thermo Scientific)

- Accepts and automatically recognizes Orion Polarographic and RDO optical/luminescence-based probes
- Calibrate using water-saturated air, air-saturated water, a Winkler titration or zero point calibration
- Large, backlit LCD display shows dissolved oxygen in percent saturation or concentration with temperature and electrode status, time, date, sample ID, user ID and calibration points
- Includes plain language screen prompts, soft keys for easy selection and a multi-language interface
- AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Four AA batteries (included) provide over 800 hours of operation or available universal power adapter (sold separately) to use AC power
- Non-volatile memory holds up to 5000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software

Accuracy (Polarographic DO)	±0.2 mg/L; ±2 % saturation
Accuracy (RDO)	±0.1mg/L up to 8mg/L, ±0.2mg/L from 8 to 20mg/L, 10% of reading from 20 to 50mg/L; ±2 % saturation
Battery Life	800 hours
Battery Type	Four AA (included)
Data Points	5000
Display Type	Graphic LCD with backlight
Inputs	9-pin Mini-DIN (RDO or Polarographic DO with temperature probe)
IP Rating	IP-67
Outputs	USB, RS232
Range	(Polarographic DO) 0 to 90 mg/L; 0 to 600 % saturation
Range (RDO)	0 to 50 mg/L; 0 to 500 % saturation
Relative Humidity Range	5 to 85 %, non-condensing
Resolution (Polarographic)	0.01, 0.1 mg/L; 0.1, 1 % saturation
Resolution (RDO)	0.01, 0.1 mg/L; 0.1, 1 % saturation
Salinity Factor	0 to 45ppt
Saturation Range	0 to 600 % Saturation (Polarographic); 0 to 500 % Saturation (RDO)
Saturation Resolution	0.1, 1% Saturation
Saturation Temperature Range	23° to 221°F
Sensor Types	Polarographic or RDO (optical) DO probe (included)
Temperature Range	23 to 221°F 5 to 45°C / -5 to +105°C ± 0.1°C
Warranty	3 year meter replacement
Certifications/Compliance	CE, TUV, FCC Class A limits
Electrical Requirements	90 to 260VAC 50/60Hz

Item No.	Mfr Item No.	Description	List Price	% Off List	Qty Break	Your Cost
3801-02	STARA3235	Meter kit includes:	1727.00	15	1	**1467.95**
		RDO probe w/3m (10 ft.) cable (087010MD)		22	2+	**1347.06**
		Protective armor with electrode holder				
		Hard carrying case				
		4 AA batteries				
3801-03	087010MD	Replacement RDO probe	804.00	18		**659.28**
3801-04	081010MD	Optional Polarographic Probe	550.00	18		**451.00**

Dissolved Oxygen Meter Kit
(Sper Scientific)

Also functions as a pH and conductivity meter when used with the optional probes

- USB computer interface
- Automatic temperature, salinity and altitude compensation (factors directly affecting DO readings)
- One-button calibration to air and adjustable membrane temperature coefficient
- Simultaneously displays DO (in ppm or mg/L), temperature (in °C or °F) and date
- Review 99 data points with time stamps, min/max and avg. readings on meter display
- Electrolyte level is visible through the pB (lead) free galvanic probe (3 meter/9' cord)
- Large backlit LCD
- Recalls the slope and date of last calibration
- Dim: 6 3/4" x 2 3/4" x 1 1/4" / 170 x 70 x 33 mm
- Weight: 14 oz. / 397 g
- Comes in a hard carrying case with USB port, probe with cable, 2 spare probe heads with membranes installed, electrolyte and 4 AAA batteries

Unit of Measure	Range	Resolution	Accuracy
DO	0 ~ 199.9%	0.1	±3% fs + 1d
	0 ~ 30 mg/L	0.1	±3% fs + 1d
pH (with optional probe)	0 ~ 12 pH	0.01 pH	0.1 pH
Conductivity (with optional probe)	0 ~ 1999 uS/cm	1 uS/cm	1% fs + 1d
	0 ~ 69.9 mS/cm	0.1 mS/cm	1% fs + 1d
Temperature	°F 23 ~ 176°F	0.1°F	±1°F
Temperature	°C 0 ~ 60°C	0.1°C	±0.5°C

Item No.	Mfr Item No.	Description	List Price	% Off List	Your Cost
5010-15	850048	DO Meter	374.00	15	**317.90**
5010-16	850048DO	Replacement probe head	111.00	15	**94.35**
5010-13	850048C/S	Optional Conductivity/Salinity Probe	85.00	15	**72.25**
5010-14	850048PH	Optional pH Probe	85.00	15	**72.25**

ANALYTICAL EQUIPMENT

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Dissolved Oxygen Pen
(Sper Scientific)

Simple one-hand operation

- Automatic temperature compensation
- Calibration to air
- Polarographic probe has a built in temperature sensor and easy-to-replace pop-off head
- Simultaneously displays DO and temperature
- Holds readings and recall minimums and maximum
- IP67 waterproof
- Comes with soft carrying case with belt loop, two spare probe heads, electrolyte and 4 AAA batteries
- Dim: 8" x 2" x 1 _" / 180 x 40 x 40 mm
- Weight: 6 oz. / 175 g

Unit of Measure	Range	Resolution	Accuracy
Dissolved Oxygen mg/L	0 - 20.0 mg/L	0.1 mg/L	±0.4 mg/L
Oxygen % in Air (for calibration reference)	0-100.0% O2	0.1% O2	±0.7% O2
Temperature °F	32-122°F	0.1°F	±1.5°F
Temperature °C	0-50°C	0.1°C	±0.8°C

Item No.	Mfr Item No.	Description	List Price	% Off List	Your Cost
5010-10	850045	DO Pen	293.00	15	**249.05**
5010-11	850089	Replacement probe head	11.00	10	**9.90**
5010-12	840044	Replacement electrolyte	14.00	10	**12.60**

Densito 30PX Meter
(Mettler Toledo)

The handling is easy - just immerse the sampling tube, pull the trigger and read the final result directly in the measurement units you want to use!
- Replacement of hydrometers and pycnometer
- Brix%, °Baumé or °Plato in Food and Beverages
- Alcohol measurement in wine and beer

Specifications

Measurement range	0 to 2 g/cm3. Resolution 0.0001 g/cm3
Accuracy	+/- 0.001 g/cm3
Temperature range	5-35°; resolution: +/- 0.1°; display: °C or °F
Temperature compensation	In order to perform accurate density measurements, the result must be corrected for sample temperature. Densito not only measures the sample temperature very accurately, it also lets you choose a temperature correction coefficient before each measurement. This makes it easy to quickly measure many different types of samples.
Clearly visible measurement cell	The most common reasons for bad results are air bubbles or impurities in the measurement cell. Densito's cell is clearly visible at all times. Potential problems are apparent at once.

Item No.	Mfr Item No.	Description	List Price	% Off List	Your Cost
3048-25	51324450	Densito 30PX Meter	3662.70	12	**3223.18**
3048-26	51325003	Cleaning Tissues			**25.32**
3048-27	51325005	Density Standards			**55.28**
3048-28	51325006	Infrared Adapter			**245.11**

Haze Meter for Beer Quality (Hanna HI847492-01)

Meets ASBC (American Society of Brewing Chemists) standard

This auto diagnostic instrument compensates a beer color to guarantee accurate readings during the brewing process. The optical system consists of an LED and multiple detectors. A two, three or four point calibration can be easily performed at any time using the supplied or user prepared standards.

This meter has all the necessary GLP (Good Laboratory Practice) features to allow maximum traceability of data. Features include a real time clock, log on demand (up to 200 measurements), and Fast Tracker™ —Tag Identification System.

This meter also incorporates a continuous measurement mode to measure the settling rate of suspended matter, and a signal average (AVG) mode to accumulate multiple readings giving a final average value. The average mode is particularly useful to measure samples with suspended particles with different dimensions.

Features a user-friendly interface, with a large backlit LCD and acoustic signals and display codes to guide the user step-by-step through routine operations.

Specifications

Range	0.00 to 9.99 FTU 10.0 to 99.9 FTU 100 to 1000 FTU
Range Selection	Automatic
Resolution	0.01 FTU from 0.00 to 9.99 FTU 0.1 FTU from 10.0 to 99.9 FTU 1 FTU from 100 to 1000 FTU
Accuracy	±2% of reading plus 0.05 FTU
Repeatability	±1% of reading or 0.02 FTU, whichever is greater

Item No.	Mfr Item No.	Description	Your Cost
3009-05	HI847492-01	Supplied with HI 98501-1 Checktemp® thermometer, Checktemp® instruction manual, sample cuvettes and caps (6), calibration cuvettes (HI 847492-11) (4), 25 mL glass vials with caps (4), cuvette cleaning cloth, batteries, AC adapter, instrument quality certificate, instructions and rugged carrying case.	**755.00**

PAL Plato Specific Gravity Refractometer (Atago)

Breweries can measure the specific gravity of sweet wort in degrees Plato. Advantages of the PAL-Plato include: Two buttons for easy operation, an LCD screen for objective readings, and Automatic Temperature Compensation up to 75ºC (212ºF). Additionally, taking measurements with the PAL-Plato only requires a few drops of sample, and it provides accurate readings within 3 seconds.

Specifications

Measurement range	0.0 to 30.0°P
Resolution	0.1°P
Accuracy	± 0.2°P
Measurement temperature	10 to 75°C (Automatic Temperature Compensation)

Item No.	Your Cost
5029-03	**374.32**

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ANALYTICAL EQUIPMENT

ALCOHOL - Hydrometer

Dual Scale - Proof and Tralle

- Proof Scale measures the... Percent Alcohol by Volume Multiplied by 2
- Tralle Scale measures the... Percent of Alcohol by Weight in Water
- Internal Revenue Specification Proof Scales
- Suitable for Certification… Upon request (additional charge)

Item No.	Description	Tralle Scale	Div.	Proof Range	Div.	Thermometer
3048-05	Combined Form 330mm	0 to 100%	1%	0 - 200%	2%	- 10 / 100ºF- Spirit Filled
3048-06	Plain Form 300mm	0 to 100%	1%	0 - 200%	2%	

Item No.	Description	Your Cost
3048-05	Alcohol Thermo-Hydrometer	19.46
3048-06	Alcohol Hydrometer	11.13

Specific Gravity Hydrometers (Thermco)

These glass hydrometers measure the specific gravity (relative density) of liquids—the ratio of the density of the liquid to the density of water.

Item No.	Specific Gravity	Length	Divisions	List Price	% Off List	Your Cost
3024-86	0.895 to 1.0	300 mm	0.001	26.57	20	21.26
3024-87	0.650 to 1.000	300 mm	0.005	26.57	20	21.26
3024-88	1.000 to 1.220	300 mm	0.002	26.57	20	21.26
3024-89	1.200 to 1.420	300 mm	0.002	26.57	20	21.26

A.S.B.C. Hydrometers (Rascher & Betzold)

Top Reading Pyrex® Brand Glass Hydrometers

Readings are made on hydrometers at the top of the meniscus when overflowing in a clean special glass cylinder. They check laboratory determinations made with the Boot or Reischauer pycnometer.
American Society of Brewing Chemists Large Laboratory Type / 240 ml of Sample Needed.

Item No.	Liquid Tested	Range %Plato	Divisions %Plato	Length	Outside Diameter	Your Cost
3048-17	Beer/Wort	0 to 8	0.1	330mm/13"	25mm	188.57
3048-18	Beer/Wort	8 to 16	0.1	330mm/13"	25mm	188.57
3048-19	Beer/Wort	16 to 24	0.1	330mm/13"	25mm	188.57

Hydrometer Cylinders, Borosilicate Glass

Made from heavy borosilicate glass, these cylinders have a beaded top with a pouring spout and a round base for stability.

Item No.	Capacity (ml)	O.D. x Height (mm)	Your Cost
3048-15	500	50 x 300	17.38
3048-16	1200	65 x 450	32.25

BALLING - Hydrometer

Standardized at 17.5°C (63.5°F)
- Balling Hydrometers Measure Sugar Content of Beer and Wort
- Combined Form with Thermometers and Temperature Correction Scales in the Body
- Tolerance is 0.1%
- Standard Temperature 17.5°C (63.5°F)
- Suitable for Certification – Available upon request (additional charge)

Item No.	Range	Div.	Length	Your Cost
3048-07	0 to 8.5°	.1°	12"	19.57
3048-08	7.5 to 16°	.1°	11"	19.57
3048-09	15.4 to 24°	.1°	18"	19.57

Aroxa™ "Uno Kit"
Beer Flavor Standards
(Cara Technology)

Now is stocked and ships from the United States

Use this set of certified beer flavor standards to deliver up to two hours of taster training for ten people, or as a personal flavor training kit. The kit includes four positive beer flavors, four off-flavors and two taints. The AROXA Uno Beer Flavor Standards kit comes complete with a presentation box and informative flavor cards for each standard. AROXA certified beer flavor standards are: food grade, free from sensory impurities, extensively tested and safe to smell and taste.

Flavor Standards Included:
- 2,3 butanedione: "Diacetyl, like butter, or butter popcorn"
- Dimethyl sulfide: "DMS, like sweetcorn or tomato sauce"
- Ferrous sulfate: "Metallic, like ink or blood"
- Hop oil extract: "Like hoppy ale"
- Hydrogen sulfide: "H_2S, like boiled or rotten egg"
- Isoamyl acetate: "Like bananas or pear drops"
- 3-methyl-2-butene-1-thiol: "Like a skunk or freshly-brewed coffee"
- Trans-2-nonenal: "Papery, like cardboard or oxidized beer"
- 2,4,6-trichloroanisole: "Musty, like corked wine or a damp cellar"
- 4-vinyl guaiacol: "Phenolic, like cloves or wheat beer"

Item No.	Qty Break	Your Cost
3049-25	1-9	133.99
	10+	127.29

THERMOMETERS

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Waterproof Dual Scale Digital Thermometer with Mix/Max and Hold Features (DeltaTRAK)

Essential features for an amazing price

With minimum and maximum memory capability, it will record the lowest and highest temperature reached from last reset, between -40°F to 311°F (-40°C to 155°C) and is accurate within ±1°F (±0.5°C). This waterproof instrument is an ideal food service thermometer for HACCP compliance.

Use this extremely versatile thermometer to verify dishwasher temperature, ensuring that your cookware and dishes have been properly sanitized. The thermometer is completely waterproof for repeated commercial dishwasher use. It can be used where steam or condensation is a problem, or it can be completely submerged into water.

Large easy-to-read display. Comes with a removable see-through probe cover with pocket clip. Factory calibration is N.I.S.T. traceable by lot. Recalibration is possible via a button in the battery compartment.

Sensor Temperature Range	-40°F to 311°F (-40°C to 155°C)
Accuracy	±2°F (-40°F to -4°F); ±1°C (-40°C to -20°C)
	±1°F(-4°F to 131°F); ±0.5°C (-20°C to 55°C)
	±2°F (131°F to 311°F); ±1°C (55°C to 155°C) or ±1%, whichever is greatest
Resolution	0.1 between -20° to 200° (F or C); otherwise 1°
Waterproof Rating	IP65
Response Time	Update every 1 second
Probe	Stainless steel, 4.13" L x 0.14" Dia, Reduced tip 0.1" Dia (105 mm L x 3.56 mm Dia, Reduced tip 2.5 mm Dia)
Battery (included)	1.5V button alkaline or equivalent, about 5,000 hours continuous life
Certification	CE, RoHS, NIST traceable, manufacturers certificate of compliance available

Item No.	List Price	% Off List	Qty Break	Your Cost
3029-84	20.75	28	1-4	14.94
		32	5-19	14.11
		42	20+	12.04

FlashCheck® Jumbo Display Reduced Tip Probe Thermometer (DeltaTRAK 11066)

This Reduced Tip Probe Thermometer is engineered to set the industry standard for accuracy, durability and readability. It is designed and constructed under exacting standards to meet and exceed specifications required for commercial and professional uses.

• Reduced tip probe provides fast response time
• Ideal for measuring temperature of "thin mass" food such as meat patties, chicken, and fish fillets per FDA Food Code 4-302.12(B)
• Sealed unibody construction and RoHS-compliant
• IP56 waterproof & grease resistant

Measurement	Range -40°F to 311°F (-40°C to 155°C)
Accuracy	±1°F (-4°F to 113°F); ±0.5°C (-20°C to 45°C), otherwise ±1.8°F (±1°C)
Resolution	0.1°F (0.1°C)
Display Size/Update	1.5" X 0.5" (38mm X 12.7mm)/Every 2 seconds
Probe Size	3.9" L (99mm L), 0.14" Dia to 0.1" Dia reduced tip (3.5mm Dia to 2.6mm reduced tip)
Calibration	Factory calibrated to NIST traceable standards
Battery	1.5V button
Battery Saver	Automatic shut off after 10 minutes
Regulatory Compliance	NSF and RoHS compliant, CE mark, NIST traceable
Body	ABS plastic, operating range -4°F to 190°F (-20°C to 88°C)

Item No.	List Price	% Off List	Qty Break	Your Cost
3028-02	16.50	28	1-4	11.88
		32	5-19	11.22
		42	20+	9.57

Traceable® Lollipop Shock and Waterproof Thermometer (Control Co. 4371/4378)

Records minimum/maximum reading

Stainless-steel probe is resistant to most laboratory chemicals. Wide range: –58 to 572°F and –50 to 300°C. Resolution is 0.1° from –20 to 200°; 1° outside this range. Accuracy is ±1°C between 0 and 100°C. Ultra™ model accuracy is ±0.4°C at tested points. Reading updates every second. At the touch of a button, memory recalls highest and lowest temperature readings over any time period. Engineered to be shockproof in drop tests up to 5 feet. Bright 1/4-inch-high display is easy to view. One year warranty.

Stem diameter, 0.14-inch; stem length, 8 inches; overall length, 10-1/4 inches; width, 1-3/4 inches; depth, 1/2 inch · Weight is 7/8 oz.

To ensure accuracy, an individually serial-numbered Traceable® Certificate is provided from our ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology). Supplied complete with stainless-steel probe, probe cover and one LR44 button cell battery; replacement #3029-60. Stem size is 0.14 inch diameter and 8 inch length. Overall unit length is 10-1/4 inches, width is 1-3/4 inches and depth is 1/2-inch. Weight is 7/8 ounce.

Item No.	Description	List Price	% Off List	Qty Break	Your Cost
3516-60	Lollipop Thermometer, accuracy ±1°C	28.44	15	1-4	24.17
			20	5+	22.75
3516-62	Ultra Lollipop Thermometer, accuracy ±0.4°C	64.61	15	1-4	54.92
			20	5+	51.69

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THERMOMETERS

Economy Grade Laboratory Thermometers

Liquid-in-glass. 12″/305 mm long. Good value for general lab use.

Item No.	Range	Div°	Accuracy	Comments	Qty Break	Your Cost
3028-67	-20 to 110°C.	1	1°	spirit	1-9	5.29
					10+	4.44
3028-68	0 to 230°F.	2	2°	spirit	1-9	5.29
					10+	4.44

3030-20

Super Long Stem Dial Thermometer

3″ dial. 2°F subdivisions. Accuracy is ± one subdivision.

Item No.	Range	Stem Length inches/mm	Your Cost
3030-20	-40 to 160°F	12/305	22.05
3030-22	0 to 200°F	36/914	84.50
3030-24	0 to 200°F	48/1220	102.36
3030-26	0 to 200°F	72/1830	189.70

Traceable® T-Handle Digital Thermometer
(Control Co.)

- On/Off switch
- Automatic power off
- °C/°F preset
- Stainless-steel probe
- Data hold
- Protective probe cover

Measurement range: −58 to 302°F / −50 to 150°C	
Display digit size: 6 x 3 mm	
Product Size: 2 x 58 mm	
Probe Size: 0.35 x 125 mm	
Battery: 1.5 volt, size A76 or equivalent x 1 pc	

Certified™ to NIST: To assure accuracy an individually serial-numbered certificate is provided from our ISO 9001 quality certified facility. It indicates standards provided by NIST (National Institute of Standards and Technology).

Item No.	List Price	% Off List	Qty Break	Your Cost
3516-11	27.54	50	1-4	13.77
		55	5-19	12.39
		60	20+	11.02

WATER TESTING

Peracetic Acid/Hydrogen Peroxide Test Kit (LaMotte 7191)

This titration kit can measure either PAA in 15-ppm increments or peroxide concentrations in 50-ppm increments. The hydrogen peroxide equivalence is 1 drop = 50 ppm. The peracetic acid equivalence can be modified to test different concentrations by using a different sample size. The result is a 1 drop = 6, 15, or 300 ppm equivalence. Do not use for tap water or low levels of peracetic acid.

Item No.	Mfr. Item No.	Description	List Price	% Off List	Your Cost
5049-70	7191-01	Peracetic Acid/Hydrogen Peroxide Test Kit • Peracetic Acid Titrant 60 mL • Sulfuric Acid 30 mL • Ferroin 15 mL • Hydrogen Peroxide Titrant 2x3 mL • Potassium Iodide 30 mL • Test Tube, 5-10-25 mL, plastic, w/cap	71.50	20	57.20

Peracetic Test Kit Components

Item No.	Mfr. Item No.	Description	Qty	List Price	% Off List	Your Cost
5049-71	S-6155-H	Peracetic Acid Titrant	60 mL	8.55	20	6.84
5049-72	6141WT-G	Sulfuric Acid	30 mL	8.50	20	6.80
5049-73	6410-E	Ferroin	15 mL	7.40	20	5.92
5049-74	5650LWT-G	Hydrogen Peroxide Titrant	2x3 mL	12.65	20	10.12
5049-75	6521-G	Potassium Iodide 20% Solution	30 mL	13.10	20	10.48

BrewLab™ and BrewLab Plus™ (LaMotte)

Test kit for craft beer

Experts agree water conditions affect your final product, so take the mystery out of making great beer. This test kit quantifies six important water test factors. BrewLab Plus includes is a digital pH meter for monitoring batches from start to finish.

Specifications

Test Factor	Range	Number of Tests
Hardness (Total and Calcium) Calcium: Helps prevent enzymes from denaturing and extends their activity in the mash, promoting clarity, flavor and stability in the finished beer. Magnesium: In small amounts Mg is an important yeast nutrient. The better the "yeast ferment", the cleaner the alcohol produced.	0-200 ppm† as CaCO3	50 at 200 ppm
Alkalinity Directly affects your water and your beer's pH level. Water with low alkalinity is subject to dramatic pH changes. Know the alkalinity of the water before you brew to determine if you need to adjust your pH prior to brewing. Alkalinity coupled with calcium and magnesium hardness can help you estimate the end pH of your beer.	0-200 ppm† as CaCO3	50 at 200 ppm
Sulfate Controls the bitterness level of your finished beer by adjusting sulfates.	0-200 ppm sulfate 50	50
Chloride Accentuates hop character, helps dry the beer finish. Tastes minerally with high concentrations of sodium, chloride, and bicarbonate.	1 drop = 10 or 25 ppm	About 80
pH Measure the pH before and during the brewing process since it affects the test of your brew. Although testing the pH of the water before you brew is important to establish your starting point, it is even more essential to test during the process to ensure you optimize your ingredients. pH test strips and papers work fine for pre-tests, but a digital pH meter is recommended for testing during brewing.	0.0-14.0 pH	unlimited

† and higher

Item No.	Mfr. Item No	Description	Your Cost
3009-10	7189	BrewLab Basic	**117.27**
3009-11	7188	BrewLab Plus includes digital pH meter	**199.00**

Insta-Test Test Strips
(LaMotte)

Very useful in dairy, food and beverage plants.

Single Factor Test Strips

Item No.	Mfr. Item No.	Description	Range (ppm)	Qty	Values (ppm)	List Price	% Off List	Qty Break	Your Cost
5049-03	2997	Alkalinity	0-180	50	0, 40, 80, 120, 180	11.45	18	1-9	**9.39**
							21	10+	**9.05**
5049-06	2999	Chlorine Dioxide	0-10	50	0, 0.25, 0.5, 1, 3, 10	11.40	18	1-9	**9.35**
							21	10+	**9.01**
5049-09	3002	Chlorine Dioxide	0-500	50	0, 10, 25, 50, 100, 250, 500	11.40	18	1-9	**9.35**
							21	10+	**9.01**
5049-45	2964-G	Chlorine, Free, Low Range	0-10	25	0, 0.25, 0.5, 1, 3, 5, 10	6.90	18	1-9	**5.66**
							21	10+	**5.45**
5049-48	3031	Chlorine, High Range	0-800	50	0, 50, 100, 250, 500, 800	19.95	18	1-9	**16.36**
							21	10+	**15.76**
5049-12	2979	Chlorine, Total	0-5	50	0, 0.5, 1, 3, 5	11.40	18	1-9	**9.35**
							21	10+	**9.01**
5049-15	2981	Hardness, Low Range	0-180	50	0, 30, 60, 120, 180	11.65	18	1-9	**9.55**
							21	10+	**9.20**
5049-21	3000	Peracetic Acid	0-160	50	0, 10, 20, 40, 60, 85, 160	10.80	18	1-9	**8.86**
							21	10+	**8.53**
5049-42	3000LR	Peracetic Acid, Low Range	0-50	50	0, 5, 10, 20, 30, 50	10.70	18	1-9	**8.77**
							21	10+	**8.45**
5049-54	3000HR	Peracetic Acid, High Range	0-1000	50	0, 50, 100, 250, 500, 1000	10.70	18	1-9	**8.77**
							21	10+	**8.45**
5049-51	2984LR	Peroxide	0-50	25	0, 1, 3, 10, 30, 30, 50	11.45	18	1-9	**9.39**
							21	10+	**9.05**
5049-24	2984	Peroxide	0-90	25	0, 15, 30, 50, 90				**7.58**
5049-18	2974	pH, Wide Range	4-10 (pH)	50	4, 5, 6, 7, 8, 9, 10	11.65	18	1-9	**9.55**
							21	10+	**9.20**
5049-58	2934	QAC (Quaternary Ammonia Compound) test strips	0-80 0-800	50	0, 10, 20, 40, 80 0, 100, 200, 400, 800	8.30	18 21	1-9 10+	**6.81** **6.56**

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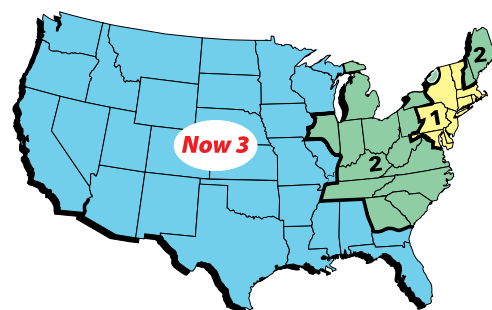Sales Manager
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Place your order by 3:30 PM (Eastern Time zone) and your order will ship that very same afternoon. Based on UPS delivery schedule (see map) your order will be routed via basic ground service if delivery is scheduled at 3 business days or less. If the UPS delivery schedule indicates more than 3 business days, we will upgrade your order to 3 Day Select service at no extra charge to you. You pay only for basic ground service.

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