



Canadian  
Wine & Brew Masters  
Laboratory Equipment  
& Supplies Guide



2016

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**Looking for something not listed in the catalogue?  
(since this is only a small sample of what we carry)  
Check out the website or contact us directly....we will have what your are looking for!**

# Apparatus

## Autoclave/ Sterilizer

### Tuttnauer 1730

#### Part # 1730

1730 will satisfy all of your basic sterilization needs at an economical price.

High speed and reliability are built into every unit.

Features:

- Fast Cycle Time. 11 minutes from a hot start (Standard Unwrapped Cycle Time)
- Automatic shut off at the end of both the sterilization and dry cycles
- A long life electro polished chamber and door
- Double safety locking device prevents door from opening while chamber is pressurized
- Overheat cut off prevents burnout of heating elements in case of insufficient water in the chamber
- Drain valve is located on the front, allowing for quick and easy draining of water reservoir
- Dual safety thermostat to protect against overheating
- International certifications



#### Specifications:

<b>Chamber Dimensions</b> [dia. x L]	7" x 13" (170 x 340mm)
<b>Volume</b>	2 gal/7.5L
<b>Overall Dimensions</b> D x W x H	17.9" x 17.4" x 12" (455 x 440 x 305mm)
<b>Standard Cassettes</b>	2 half
<b>Tray Dimensions</b> D x W x H	11.6" x 4.7" x 0.8" (295 x 120 x 20mm)
<b>No. of Trays</b>	3
<b>Standard Unwrapped Cycle Time</b>	Cold: 16 minutes      Hot: 11 minutes
<b>Voltage/ Frequency</b>	120v 50/60Hz
<b>Power / Current</b>	1350W / 11A
<b>Shipping Weight</b>	55 lbs (25kg)

### Portable Sterilizer

#### Part # APE-25

Pressure cooker type sterilizer with metal to metal seal, eliminating rubber gaskets.

Features:

- Dial gauge and valve control
- Cast aluminum construction
- Built-in 1000w calrod immersion heating element, thermostat, switch and pilot lamp.
- 6 foot cord and plug
- 50/60Hz, AC, 1000w



### Autoclave Gloves

Part # GLHR- (Go to page 28 for more information on sizes)

- Heat-resistant up to 232°C (450°F)
- Soft, pliable Clavies® gloves are excellent for handling hot objects out of the autoclave or oven
- made of cotton/terry cloth orange colour keeps them highly visible
- washable
- Gauntlets provide wrist and forearm protection



### Autoclave Sterilizing Indicator Tape

Part # ACTAPE-12500

- Ideal for use with steam autoclaves
- Write on tape with pen, pencil or felt marker
- Can be used to seal and identify almost all laboratory materials before and after autoclaving
- The word "Sterilized" appears on the tape after being subjected to temperatures of 250° F or more
- Dimensions (W x L) 1/2" x 500" ( 12.7 x 12500mm) per roll



Part #	Details	Qty.
1730	Tuttnauer 7.5 L Autoclave	EA
APE-25	Portable Sterilizer	EA
ACTAPE-12500	Autoclave Sterilizing Indicator Tape (roll)	EA

# Apparatus Balances

## EJ-Series

EJ Series "Newton" are entry-level precision compact balances with a rich feature set. In laboratory and academic applications, the Newton provides the performance that users have come to expect from A&D at a value price.

- Battery or AC operation
- Underhook Capability
- RS-232C & USB interface options
- Optional Density Determination Kit to measure specific gravity.
- 5 Year Warranty



Part #	Capacity	Readability	Pan Size	Qty.
EJ-123	120g	0.001g	110mm	EA
EJ-200	210g	0.01g	110mm	EA
EJ-303	310g	0.01g	110mm	EA
EJ-410	410g	0.01g	110mm	EA
EJ-610	610g	0.01g	110mm	EA
EJ-1500	1,500g	0.1g	127 x 140mm	EA
EJ-2000	2,100g	0.1g	127 x 140mm	EA
EJ-3000	3,100g	0.1g	127 x 140mm	EA
EJ-4100	4,100g	0.1g	127 x 140mm	EA
EJ-6100	6,100g	0.1g	127 x 140mm	EA



Part #	Capacity	Readability	Pan Size	Qty.
HT-300	310g	0.1g	132 x 130mm	EA
HT-500	510g	0.1g	132 x 130mm	EA
HT-3000	3,100g	1g	132 x 130mm	EA
HT-5000	5,000g	1g	132 x 130mm	EA

## HT-Series

- Three color bars to sort scales easily
- Stackable carrying case that economizes space for storage
- Long battery life of approx. 450 hours (with alkaline batteries)
- Large LCD display with 13.5-mm high characters
- Storage case with a name plate holder
- Penholders in two corners of the case
- Multiple weighing units: g, oz., lb-oz.\*, ozt, tael, tola, Newton
- Security slot in the rear of the scale to accommodate an anti-theft lock
- Auto-power off function to avoid wasting battery power
- Optional stainless steel (SUS304) pan
- Optional AC adapter available

\*lb-oz. not available with the HT-300

# Apparatus

## Centrifuge

**Part # E8C-U8AF-1503**

LW Scientific USA E8 with Swing-out-8-place rotor spins up to eight 3.0ml –15ml test Tubes.  
 Maximum Nominal: 3,500RPM (+/-5%)  
 Maximum Nominal RCF: 1.534g  
 Max. Volume: 120ml  
 Max. Power: 12v 6.0A  
 Height: 9.5" Width: 11" Weight: 9.5 lbs



## Hotplates

**Part # 953201**

Mini hotplate, made of durable cast aluminum top plate will not crack or chip, and provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Compact design saves bench space. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp kit.

Specifications:

Temperature Range: Ambient to 400°C  
 Maximum Capacity (volume): 1000ml  
 Top Plate Material: Aluminum  
 Top Plate Dimensions (diameter): 114mm (4.5")  
 Overall Dimensions (L x W x H): 15 x 146 x 137mm ( 6.5 x 5.75 x 5.4")  
 Electrical: 120v 6amps 565w 50/60Hz  
 Shipping Weight: 2kg (4.5 lbs)  
 Warranty: 5 YEARS made in USA



**Part # 984TA5AHPUS**

Talboys Basic Mini Hotplates are rugged, compact units that heat up to 1000ml of liquid. Durable, cast aluminum top plate will not crack or chip, and provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Compact design saves bench space, Built in support rod holder and locking knob accepts optional Support Rod and Clamp Kit

Specifications:

Temperature Range: Ambient to 375°C  
 Maximum Capacity (volume): 1000ml  
 Top Plate Material: Aluminum  
 Top Plate Dimensions: 12.7 x 12.7cm (5 x 5")  
 Dimensions: 20.1 x 15.2 x 12.4cm (7.9 x 6 x 4.9")  
 Operating Conditions: 4 to 40°C (39 to 104°F) 20% to 85% relative humidity, non-condensing  
 Electrical: 120v 6 Amps 565W 50/60Hz  
 Warranty: 5 YEARS made in USA



## Hot Plate Stirrers

**Part # 953202**

Mini hotplate stirrer are rugged, compact units that heat and stir up to 1000ml of liquid. Made of durable cast aluminum top plate will not crack or chip, and provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp kit.

Specifications:

Temperature Range: Ambient to 400°C  
 Stirring Speed: 100 to 1200rpm Speed Stability ±2%  
 Maximum Capacity (volume): 1000ml  
 Top Plate Material: Aluminum  
 Top Plate Dimensions (diameter): 114mm (4.5")  
 Overall Dimensions (L x W x H): 165 x 146 x 135mm ( 6.5 x 5.75 x 5.32")  
 Electrical: 120v 6amps 565w 50/60Hz  
 Shipping Weight: 2kg (4.5 lbs)  
 Warranty: 5 YEARS Made in USA



**Part # 984TA5AHSUS**

Talboys Basic Mini Hotplate-Stirrer are rugged, compact units that heat up to 1000ml of liquid. Durable, cast aluminum top plate will not crack or chip, and provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space, Built in support rod holder and locking knob accepts optional Support Rod and Clamp Kit.

Specifications:

Temperature Range: Ambient to 375°C  
 Stirring Speed: 100 to 1200rpm  
 Maximum Capacity (volume): 1000ml  
 Top Plate Material: Aluminum  
 Top Plate Dimensions: 12.7 x 12.7cm (5 x 5")  
 Dimensions: 20.1 x 15.2 x 12.4cm (7.9 x 6 x 4.9")  
 Operating Conditions: 4 to 40°C (39 to 104°F) 20% to 85% relative humidity, non-condensing  
 Electrical: 120v 6 Amps 565W 50/60Hz  
 Warranty: 5 YEARS made in USA



Part #	Details	Qty.
08C	Centrifuge	EA
953201	Hot Plate (round)	EA
984TA5AHPUS	Hotplate (square)	EA
953202	Hot Plate Stirrer (round)	EA
984TA5AHSUS	Hot Plate Stirrer (square)	EA

# Apparatus Incubators

## Incubator, 2.0 cu. ft.

### Part # IEC-181216

Incubator, Gravity Convection 2.0 cu ft. Analog  
Temperature Range 5 to 65°C

The incubator has a see-thru tinted acrylic door that enables the user to see the entire work space without opening the door. The exterior is attractive ivory baked-on enamel, with chrome plated adjustable shelf and fixed bottom shelf.

Incubator comes ready-to-use and no assembly is required.

- Min/Max Temperature: 5 to 65°C (41 to 149°F)
- Volume: 57L / 2.0cu. ft.
- Chamber Dimensions (W x H x D): 460 x 410 x 310mm  
18 x 16 x 12"
- Overall Dimensions (W x H x D): 460 x 530 x 330mm  
19 x 21 x 13"
- Power: 115v 1.91A 235w
- Thermostat Type: Bi-Metal
- Operating Temperature Range: Ambient +2 to 65°C (Ambient +5 to 149°F)
- Shipping Weight: 18.6kg (41 lb)
- Warranty: 18 months



## Stirrers

### Part # 953200

Mini stirrer are rugged, compact units stir up to 1000ml of liquid. Made of durable cast aluminum top plate will not crack or chip. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp kit.

Specifications:

- Stirring Speed: 100 to 1200rpm Speed Stability ±2%
- Maximum Capacity (volume): 1000ml
- Top Plate Material: Aluminum
- Top Plate Dimensions (diameter): 114mm (4.5")
- Overall Dimensions (L x W x H): 165 x 146 x 135mm ( 6.5 x 5.75 x 5.32")
- Electrical: 120v 6amps 565w 50/60Hz
- Shipping Weight: 2kg (4.5 lbs)
- Warranty: 5 YEARS made in USA



## Incubator, 0.7 cu. ft.

### Part # IEC-121010

Incubator, Gravity Convection 0.7 cu ft. Analog  
Temperature Range 5 to 62°C

The incubator has a see-thru tinted acrylic door that enables the user to see the entire work space without opening the door. The exterior is attractive ivory baked-on enamel, with chrome plated adjustable shelf and fixed bottom shelf.

Incubator comes ready-to-use and no assembly is required.

- Min/Max Temperature: 5 to 62°C (41 to 144°F)
- Volume: 20L / 0.7cu. ft.
- Chamber Dimensions (W x H x D): 310 x 260 x 260mm  
12 x 10 x 10"
- Overall Dimensions (W x H x D): 330 x 380 x 280mm  
13 x 15 x 10.75"
- Power: 115v 0.96A 120w
- Thermostat Type: Bi-Metal
- Operating Temperature Range: Ambient +2 to 62°C (Ambient +5 to 144°F)
- Shipping Weight: 10.4kg (23 lb)
- Warranty: 18 months



### Part # 984TA5ASTUS

Talboys Basic Mini Stirrer are rugged, compact units that heat up to 1000ml of liquid. Durable, cast aluminum top plate will not crack or chip. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space, Includes a 3.8cm (1.5") PTFE coated stir bar. Built in support rod holder and locking knob accepts optional Support Rod and Clamp Kit.

Specifications:

- Stirring Speed: 100 to 1200rpm
- Maximum Capacity (volume): 1000ml
- Top Plate Material: Aluminum
- Top Plate Dimensions: 12.7 x 12.7cm (5 x 5")
- Dimensions: 20.1 x 15.2 x 12.4cm (7.9 x 6 x 4.9")
- Operating Conditions: 4 to 40°C (39 to 104°F) 20% to 85% relative humidity, non-condensing
- Electrical: 120v 6 Amps 565W 50/60Hz
- Warranty: 5 YEARS made in USA



Part #	Details	Qty.
IEC-181216	Incubator, 2.0 cu ft. Analog	EA
IEC-121010	Incubator 0.7 cu. ft. Analog	EA
953200	Stirrer (round)	EA
984TA5ASTUS	Stirrer (square)	EA

# Apparatus

## Meters

### DO (Dissolved Oxygen)

#### Part # ST20D

Pen style, perfect DO meter for every application that requires portable operation and quick results. With IP 67 waterproof design and automatic shutdown feature that preserves battery life, this DO meter can endure consistent use in rugged environments.

Battery: 4 AG13 1.5V Micro Alkaline Batteries



#### Part # ST400D-G

The Low-Maintenance Dissolved Oxygen (DO) Meter with Optical Technology for Accurate Measurements

- Optical or Luminescent DO Probe allows for minimal maintenance and permits for immediate measurement reading without the need for warm up time or any sample preparation
- Large bright backlit LCD screen provides easy to read results even in low light areas with 5 dedicated manual keys that deliver simple straightforward operation for all operators via a simple calibration process and accurate measurements

With a meter stand, wrist strap for secure field use and IP54 housing, Starter 400D is durable and prepared for versatile use



#### Part # 9139-MW600

Anywhere accurate Dissolved Oxygen measurements are important and where Oxygen levels are continuously monitored to obtain optimal performance. Calibrates using an easily "open air" 2 points procedure. This unit is supplied complete with MA840 D.O. polarographic probe which has a 3m cable, calibration screwdriver, 5 spare membranes, a starter bottle of electrolyte solution for filling the membrane (model # MA9071 @20ml).

Battery: 9V (approx. 70 hours of continuous use)



#### Part # 9139-MI190

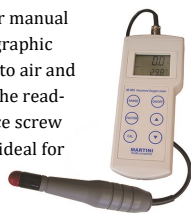
Ideal for testing Dissolved Oxygen in the pharmaceutical and food Industry, as well as monitoring in water treatment plants. The user can choose to measure D.O. readings in mg/L or % of saturation of O<sub>2</sub>. This meter can be used for any type of water, as it allows measurements to compensate for temperature, altitude and salinity factors. The automatic logging interval can be set to perform analysis and store data into the memory. All logged data can be downloaded to your PC through an RS232 or USB serial port. Memory can store up to 50 samples.

Mi190 features an automatic calibration procedure, at 1 or 2 points (at 0 and 100% of O<sub>2</sub> saturation). The polarographic probe supplied with the meter (MA840/2) measures the current generated by the reaction of O<sub>2</sub> with Ag. Mi190 is supplied complete with MA840/2 DO probe with 2 m cable, 2 spare membranes, MA7041 electrolyte solution (30 mL), 12 VDC power adapter, probe holder and instruction manual.

#### Part # 9139-MI605

Portable, microprocessor-based, Dissolved Oxygen meter with automatic calibration and temperature compensation (ATC) specifically designed for spot sampling applications. Dissolved Oxygen measurements can be displayed in parts per million (ppm =mg/L) or in % of saturation. The temperature is indicated in Celsius from 0 to 50°C with 0.1 resolution. The meter compensates salinity and altitude automatically after manual input. Calibration is very simple and fast: just expose the polarographic Dissolved Oxygen probe MA840, supplied with the instrument, to air and press the CAL button. A HOLD button allows the user to freeze the reading on the LCD. The low battery indicator and the easy to replace screw on cap membranes make the MI605 a compact instrument and ideal for all applications.

Battery: 9v (approx. 100 hours of use)



#### Part # ST300D

Convenient Portable Dissolved Oxygen Meter for Wherever Your Work Takes You

- The galvanic electrode can be used immediately after being powered on without the wait time typically associated with dissolved oxygen meters
- With a simple calibration process, quick delivery of measurements and automatic temperature compensation, Starter 300D is both easy-to-use and accurate.

The automatic or manual endpoints allow the user to easily recall the last calibration data and stored information with one quick touch.

Battery: 4 AAA > 250 operating hours



#### Part # HI2004

**Slim designed Clark Type Polarographic DO probe:** edge® utilizes a 1/2" diameter Clark-type polarographic DO probe with replaceable PTFE membrane caps. This small diameter probe is ideal for many applications including those that require in situ DO measurement such as in a wine bottle.

**Capacitive Touch:** edge® features a capacitive touch keypad that gives a distinctive, modern look. The keypad is sensitive enough to be used with laboratory gloves and has a fast response. Since the keypad is part of the screen, there are no buttons to get clogged with sample residue.

**Large Easy to Read LCD:** edge® features a 5.5" LCD display that you can clearly view from over 5 meters. The large display and its wide 150° viewing angle provide one of the easiest to read LCD's in the industry.



Part #	Style	Measurement Range	Resolution	Accuracy	Powered	Qty.
ST20D	Pen	0.0-19.9mg/L	0.1mg/L	+/-0.5mg//L	Battery	EA
9139-MW600	Hand Held	0.0 to 19.9mg/L	0.1mg/L	+/-1.5% Full Scale	Battery	EA
9139-MI605	Hand Held	0.0 to 45.00mg/L	0.01mg/L	+/-1.5% Full Scale	Battery	EA
ST300D	Hand Held	0.00 to 19.99; 20.0 to 45.0mg/L	0.1mg/L; 1mg/L	+/-1%	Battery	EA
ST400D-G	Hand Held	0.00 to 20mg/L	0.01mg/L	0.1kPa	Battery	EA
9139-MI190	Benchtop	0.00 to 45.00mg/L	0.01mg/L	+/-1.5% Full Scale	Adapter	EA
HI2004	Benchtop	0.00 to 45.00mg/L	0.01mg/L	+/-1.5%	Adapter	EA



## Apparatus

Meters <sup>PH</sup>

## Part # 9139-PH600

The pH600 is a pH tester specifically designed for the aquarium market. The calibration procedure is very simple and fast. This tester has 1 point manual calibration,  $\pm 0.1$  pH accuracy and a range of 0.0 to 14.0 pH. The pH600 is supplied in a blister packaging complete with calibration screwdriver, batteries and instructions.

Battery: 3 x 1.5V alkaline included ( approx. 700 hours of continuous use)



## Part # 9139-PH55

**pH55 Pocket-size pH / Temperature Meter with replaceable electrode**  
IP65 Waterproof pH tester with Large dual-level LCD that displays pH and temperature ( $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ ). The large display shows readings in an extended range from -2.0 to 16.0 pH and simultaneously shows temperature from -5.0 to 105.0 $^{\circ}\text{C}$  or 23.0 to 221.0 $^{\circ}\text{F}$ .

pH55 has a stability indicator and hold function that freezes the display for easy and accurate recording. The large display also has graphic symbols to

guide you through all operations. Complete with a temperature probe for faster and more precise temperature measurement it compensates automatically for temperature.

Calibration is made automatically in 1 or 2 points with memorized standard and NIST buffer sets. Auto power OFF saves battery power after non-use.

The double-junction electrode can be replaced in a very fast and simple way! The modular design allows easy electrode and battery replacement.

Battery: 4 x 1.5V, IEC LR44, A76 included ( approx. 300 hours of continuous use)



## Part # ST10 &amp; Part #ST20

Two models with varying resolution and accuracy, ST10 and ST20 offer a convenient way to measure pH, or the relative acidity or alkalinity of a sample at a given temperature. The pH pen meters can be completely operated with just one hand, freeing up your other hand to handle samples.

Battery: 4 AG13 1.5v Micro Alkaline Batteries



## Part # 9139-MW102

**MW102 Standard Portable pH / Temperature Meter**

Standard portable meters with no frills! Milwaukee's low cost durable meters for quick and reliable measurements.

Milwaukee's Standard meters are manufactured to be easy to use, practical and accurate. Ideal for the classroom, laboratory or for general field use.

MW102 is a microprocessor based pH/Temperature meter with extended range (-2.00 to 16.00 pH), Automatic Temperature Compensation, automatic calibration in 2 points and  $\pm 0.02$  pH accuracy. The meter is supplied with pH electrode and calibration solutions

Battery: 4 AG13 1.5v Micro Alkaline Batteries



## Part # ST300

Convenient Portable pH Meter for Wherever Your Work Takes You  
Automatic and manual temperature compensation ensures accurate readings while a 30 measurement library stores data for future reference. The auto buffer recognition stores calibration data and helps to avoid errors during the calibration process.

With a meter stand, wrist strap for secure field use and IP54 housing, Starter 300 is durable and prepared for versatile use.

Battery: 4 AAA (LR03) included (approx. 500 hours)



## Part # HI99151

The Hanna Instruments HI99151 is a durable, waterproof, and portable pH and temperature meter designed specifically for beer analysis. Automatic calibration is performed at one or two points with two sets of buffers. All calibration and measurement readings are automatically compensated for temperature variations.

The HI99151 uses the FC214D titanium body, amplified pH electrode that offers numerous features that improve pH testing for beer analysis. The split-level LCD displays both pH and temperature readings, along with indicators for reading stability, battery percentage, and calibration instructions.

, along with indicators for reading stability, battery percentage, and calibration instructions.

**On-Screen Tutorial** - Clear tutorial messages and directions are available  
**Waterproof** - The HI99151 is a waterproof meter rated IP67 for immersion in up to one meter of water for 30 minutes.

**Automatic Calibration** - One or two-point calibration is automatic to two selectable buffer sets.

**Automatic Temperature Compensation** - An integrated temperature sensor allows for automatic temperature compensation of pH measurements.

**Multi-Level LCD Display** - The split-level LCD displays both pH and temperature readings on-screen to quickly and easily guide users through setup and calibration.

**Battery Error Prevention System** - The meter will automatically shut off if there isn't enough power to obtain an accurate measurement.

**Battery Life Indicator** - The battery percent level is displayed at start up alerting the user to the remaining battery power that is available.

## Part # 9139-MI150

**Mi150 pH / Temperature Laboratory Bench Meter**

Mi150 is an advanced pH/Temp microprocessor-based bench meter. It is ideal for students and technicians who need fast and reliable measurements.

This meter is provided with a series of new diagnostic features which add an entirely new dimension to the measurement of pH, by allowing the

user to dramatically improve the reliability of the measurement.

- Automatic Temperature Compensation (ATC) for good accuracy under fluctuating temperatures;
  - Easy to read large custom LCD;
  - Easy and Quick Push-button Calibration
  - 7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45) for calibration;
  - Messages on the LCD to make the calibration easy and accurate;
  - User-selectable "calibration time out" to remind when a new calibration is necessary;
  - Stability Indicator prompts whenever reading stabilizes.
- Moreover, it offers an extended temperature range from  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) to  $120^{\circ}\text{C}$  ( $248^{\circ}\text{F}$ ), using the MA831R interchangeable temperature probe.

## Part # ST2100-E

**Economical pH Bench Meter for Basic Laboratory Applications**

With the attached quick guide, five clearly marked keys and user friendly software, novices can operate the meter with minimal training. The built-in electrode holder provides uncomplicated and convenient all-in-one operation while the large LCD display screen clearly displays results.

Auto buffer recognition, electrode condition icon, automatic temperature compensation and reference input all work to ensure accurate results.

Part #	Style	Measurement Range	Resolution	Accuracy	Powered	Qty.
9139-PH600	Pen	0.0 to 14.0pH	0.1pH	+/-0.1pH	Battery	EA
9139-PH55	Pen	-2.0 to 16.0pH	0.1pH	+/-0.1pH	Battery	EA
ST10	Pen	0.0 to 14.0pH	0.1pH	0.1pH	Battery	EA
ST20	Pen	0.00 to 14.00pH	0.01pH	0.05pH	Battery	EA
9139-MW102	Hand Held	-2.00 to 16.00pH	0.01pH	+/-0.02pH	Battery	EA
ST300	Hand Held	0.00 to 14.00pH	0.01pH	0.01pH	Battery	EA
HI99151	Hand Held	-2.00 to 16.00pH	0.01pH	+/-0.02pH	Battery	EA
9139-MI150	Benchtop	-2.00 to 16.00pH	0.01pH	+/-0.01pH	Adapter	EA
ST2100-E	Benchtop	-2.00 to 16.00pH	0.01pH	0.01pH	Adapter	EA

# Apparatus

## Meters

### Turbidity

#### Part # 9139-MI415

Turbidity refers to the concentration of undissolved, suspended particles present in a liquid.

Turbidity is a measure of the clarity of a sample. For potable water applications turbidity is a good indicator of water quality.

Turbidity Measurement is achieved by analyzing the amount of light refracted from suspended particles such as clay, silt and organic material. By measuring turbidity, by photometric or tube methods, it is possible to estimate suspended solids content.

Mi415 has two operating ranges; 0.00 to 50.00 FNU, and 50 to 1000 FNU that can accommodate the most turbid condition you may encounter.

Mi415 is supplied in a hard carrying case, complete with reagents.

Battery: 1 x9V (auto-off after 5 minutes of non-use)



#### Part # HI847492

The HI847492 Haze Meter is specially designed for measurement of haze in beer quality analysis. The instrument is based on a state-of-the-art optical system which guarantees accurate results, assures long term stability, and minimizes stray light and color interferences. It also compensates for variations in intensity of the lamp, although proper calibration ensures measurements are fully validated, comparable, and in compliance with regulatory requirements. The 25 mm round cuvettes composed of special optical glass guarantee the repeatability of turbidity measurements.

Features at-a-glance

**ASBC Compliant Measurement** - The HI847492 meets and exceeds the requirements of the ASBC method for haze measurements. Measurements are taken from beer samples that have been chilled and degassed, and results are reported in Formazin Turbidity Units (FTU).

**Calibration** - A two, three, or four-point turbidity calibration can be performed by using the supplied (<0.1, 15, 100, and 800 FTU) standards. Calibration points can be modified if user-prepared standards are used.

**AMCO AEPA-1 Primary Turbidity Standard** - The AMCO AEPA-1 supplied standards are recognized as a primary standard by the USEPA. These non-toxic standards are made of styrene divinylbenzene polymer spheres that are uniform in size and density. The standards are reusable and stable with a long shelf life.

**Fast Tracker™** - For users taking measurements throughout their brewery, the HI847492 is equipped with Fast Tracker™ - Tag Identification System (T.I.S.) that makes data collecting and management simpler than ever. Fast Tracker™ allows brewers to record the time and location of a specific measurement or series of measurements using iButton® tags on specific tanks for quick and easy readings. Each iButton® tag contains a computer chip with a unique identification code encased in stainless steel.

**GLP Data** - The HI847492 features complete GLP (Good Laboratory Practice) functions that allow traceability of the calibration conditions. Data includes calibration points, date, and time.

**Data Logging** - Up to 200 measurements can be stored in the internal memory and recalled at any time.

**Data Transfer** - For further storage or analysis options, logged data can be downloaded to a Windows compatible PC using the USB port and the HI92000 software.

**Backlit Display** - A backlit LCD display provides an easy to understand, user-friendly interface. Displayed codes guide the user step-by-step through routine operation and calibration.

#### Significance of Use

Beer clarity is a parameter constantly controlled in the brewery. Clarity can be affected by haze, or insoluble or semi-soluble particulate matter which is small enough to form a colloidal suspension in beer, typically less than 2 μm. These particles scatter transmitted light and are observed as a degradation in the brilliance of the beer. To assure consistent product quality, the brewmaster needs more than visual inspection.

Several substances can cause haze in beer, but the most frequently encountered problem is due to a cross-linking of polyphenols and proteins. These materials exist in equilibrium in beer and manifest themselves as a haze when they combine to form insoluble colloids. A range of stabilization treatments is available for avoiding haze problems, and the product has to be controlled in several steps during the brewing process, particularly after filtration and before the beer enters the bright tanks.

Battery: 4 x AA 1.5v or AC adapter; auto-off after 15 minutes of non-use



Part #	Style	Measurement Range	Resolution	Accuracy	Powered	Qty.
9139-MI415	Hand Held	0.00 to 50.00FNU; 50 to 1000FNU	0.01FNU; 1FNU	+/-0.5FNU or +/-5% of reading, whichever is greater	Battery	EA
HI847492	Hand Held	0.00 to 1000FTU	0.01 (0.00 to 9.99FTU); 0.1 (10.0 to 99.9FTU); 1 (100 to 1000FTU)	+/-2% of reading plus 0.05FTU	Battery	EA

## Apparatus

## Stirring Bars

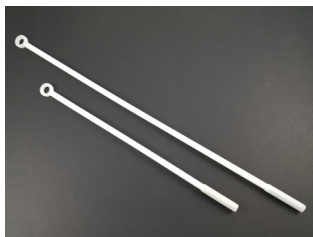
PTFE coated octagonal stirring bars.

Stirring bars feature ALNICO V magnetic cores which are one of the most powerful permanent magnet alloys available. Stirring bars should not be stored in a random mass. Or dropped on a hard surface especially steel. Stirring bars should be stored in pairs to maintain magnetic strength.

Part #	Description	Qty.
SBOT-00	3 x 12.5mm, Octagonal PTFE Coated	EA
SBOT-01	8 x 12.5mm, Octagonal PTFE Coated	EA
SBOT-02	8 x 22mm, Octagonal PTFE Coated	EA
SBOT-03	8 x 25mm, Octagonal PTFE Coated	EA
SBOT-04	10 x 38mm, Octagonal PTFE Coated	EA
SBOT-06	8 x 51mm, Octagonal PTFE Coated	EA
SBOT-07	10 x 51mm, Octagonal PTFE Coated	EA
SBOT-08	8 x 63.5mm, Octagonal PTFE Coated	EA
SBOT-10	8 x 29mm, Octagonal PTFE Coated	EA
SBOT-11	8 x 38mm, Octagonal PTFE Coated	EA
SBOT-12	8 x 41mm, Octagonal PTFE Coated	EA
SBOT-15	10 x 25mm, Octagonal PTFE Coated	EA
SBOT-19	8 x 1mm, Octagonal PTFE Coated	EA
SBOT-20	12 x 76mm, Octagonal PTFE Coated	EA
SBOT-21	15.8 x 102mm, Cylindrical PTFE Coated	EA
SBOT-22	15.8 x 127mm, Cylindrical PTFE Coated	EA
SBOT-23	19 x 152mm, Cylindrical PTFE Coated	EA

## Stirring Bar Retriever

Polypropylene Stirring Bar Retrievers are ideal for use with all stirring bars. The entire retriever is totally encased in chemically resistant polypropylene. A handy ring allows for hanging when retriever is not in used



Part #	Details	Qty.
SBR-12	12" (305mm) Length	EA
SBR-18	18" (408mm)	EA

## Vacuum Pump, Hand

Part # VPWG-01



Supplied with a pressure gauge that reads in both centimeters and inches of mercury, the vacuum pump rate is 15ml per stroke. It will displace up to 725ml of air and is fitted with a valve to release the vacuum without disconnecting the pump. Includes instruction sheet.

## Volume Meter, Co2

Part # 1000-D

The Zahm SS-60 Volume Meter was developed to determine average CO<sup>2</sup> levels of gas in tank stored beverages. Its improved design over the older Zahm-Hartung Volume Meter (Series 2000) greatly improves accuracy and time required to run a test. A precise piston release mechanism eliminates bleeding off of the sample and the potential for human error. Samples undergo repeatable, precise volumetric expansion test after test for more accurate measurements. The lightweight design reduces operator fatigue while the stainless steel construction increases strength and resists corrosion. The thermometer may also be replaced in the field without the need to return it to the factory for replacement. The parts list and line drawing should be used when ordering replacement parts or operating the instrument.



## Vortex Mixer

Part # VTM-00

New ergonomic design provides optimum comfort and minimal stress. Talboys Standard Analog Vortex Mixer control allows low rpm startup for gentle shaking or high speed mixing for vigorous vortexing of samples. Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing the cup head, Vortex mixer is supplied with both a cup head and 3-inch head with cover. 20% to 85% relative humidity, non-condensing.

Specifications:

Speed Range: 300 to 3200 rpm (maximum speed will vary depending on accessory used).

Type: Analog

Orbit: 4.9mm

Controls: Auto/On/Off Rocker Switch. Speed Knob, Variable 1 to 10 dial markings

Dimensions: 17.8 x 11.2 x 13.5cm (7 x 4.4 x 5.3")

Operating Conditions: 4 to 40°C (39 to 104°F) 20% to 85% relative humidity, non-condensing

Electrical: 120v 1.2 Amps 150W 50/60Hz

Warranty: 5 year (parts and labour)



Part #	Details	Qty.
VPWG-01	Vacuum Pump, Hand	EA
1000-D	Volume Meter, Co2	EA
VTM-00	Vortex Mixer	EA

# ATP Testing

## EnSURE™ Multi-Parameter Luminometer (Hygiena)

Multiple quality tests....Using Only One Instrument

- Coliform Detection (with Micro-Snap™)
- ATP Hygiene Monitoring
- Allergen Control
- Rapid Results
  - 15 seconds for ATP
  - 7 hours or less microbes
- Sensitive Detection Levels
  - To 0.1 femtomoles of ATP with Super-snap
  - To 1-5 CFU for microbes
  - 2x more sensitive than system SURE PLUS
- Memory Capacity
  - 100 test plan
  - 2000 user ID's
  - 5000 test locations



### Key Features:

- USB connection protected, so no moisture can enter the system
- Read chamber designed to be removable for easy cleaning
- Large screen with backlight
- Durable case for harsh environments. Internal solid state detector withstands drops or shakes
- Splash proof sealed keypad, easy to navigate with only 7 buttons
- Powered by 2 x AA batteries
- Complete with stand and carrying case

## SystemSURE Plus™ Sanitation Monitoring System (Hygiena)

Specifically for ATP Hygiene Monitoring



- Detects to 1.0 femtomoles of ATP
- Has a majority of the other features as the EnSURE Instrument for ATP analysis

Part #	Details	Qty.
ENSURE	Ensure Luminometer	EA
SS3	System Sure Plus	EA

## ATP Hygiene Monitoring Swabs (Hygiena)

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

### SuperSnap™ 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
  - \* Pre-moistened swab bud breaks through biofilms
  - \* Detects very small amounts of ATP and organic residues
  - \* Suitable for allergen monitoring—detects residues at levels down to 0.1 femtomoles of ATP when used with EnSURE monitoring system
  - \* SuperSnap is comparable to ELISA and lateral flow allergen specific tests

### Ultrasnap™ High Sensitivity & Cost Effective



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

### SuperSnap & Ultrasnap Features

- 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 2-8°C (35-46°F), 4 weeks at room temperature of 21-25°C (70-77°F)

### Benefits...

- 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

Part #	Details	Qty
SUS300	SuperSnap	EA
US2020	Ultrasnap	CS/100
PCD4000	Positive/Negative Control Set	EA
CK25	Positive Control Kit	Pk/25
SSCC03	Swab Cooler	EA

# ATP Testing

## AquaSnap™ Total & Free ATP Water Test (Hygiene)

*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 100µl 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 (100µl) 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 2-8°C, 4 weeks room temperature 21-25°C
- ⇒ Compatible Luminometers: EnSURE, SystemSURE Plus

Part #	Details	Qty.
AQ-100X	Total ATP Water Test	Pk/100
AQ-100FX	Free ATP Water Test	Pk/100

## Q-Swab™ Environment Sample Collection Device (Hygiene)



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

- ⇒ Shelf life: 12 months at refrigerated temperatures 2-8°C
- ⇒ Aseptically filled and gamma irradiated
- ⇒ All-in-one sample collection systems
- ⇒ 1ml fill of broth, perfectly hydrates 1 dried media film plate
- ⇒ Q-Swab (Lethen Broth) devices do not contain bi-sulfites. They do contain other ingredients like Lecithin that neutralizes certain quaternary ammonium compounds (sanitizers) and Tween 80 that also neutralizes phenolic disinfectants.

Part #	Details	Qty.
QS1000	Buffered Peptone Water	Pk/250
QS1200	Lethen Universal Neutralizing Medium	Pk/250

## PRO-Clean™ Rapid Protein Residue Test (Hygiene)

*Validate surface cleanliness without instrumentation*



A quick 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 colour change provides a semi-quantitative measure of the surface cleanliness. The more contamination present, the quicker the colour changes to purple and the darker the colour. 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.

### Features & Benefits

- Shelf Life: 12 month at refrigerated temperatures
- Results in under 10 minutes with most colour changes taking place in under 60 seconds
- All-in-One device (no instrumentation)
- Easy to interpret
- Affordable
- Excellent for employee training and feedback
- Provides HACCP/SSOP verification
- Pinpoints deviations in sanitation procedures



Part #	Details	Qty.
PRO-100	Rapid Protein Food Residue Test	Pk/100

# Bacteriological Testing

To ensure quality and freshness, the following items are ordered as required.  
Items are non-cancellable, non-returnable



**Part # C8990**      **2L mylar® bag – pre-measured for a 2 liter batch, no weighing needed!**

**Barney Miller Broth with Indicator, CRITERION™** Dehydrated Culture Media, Mylar® zip-pouch to make 2L, recommended for the isolation and detection of beer spoilage microorganisms, specifically lactic acid bacteria. Indicator allows for early detection of growth by yellow color change due to pH shift. CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 500gm bottle, 2kg and 10kg bucket

**Part # C8991**      **500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

**Barney Miller Broth with Indicator, CRITERION™** Dehydrated Culture Media, 500gm wide-mouth bottle, by Hardy Diagnostics. Hardy Diagnostics CRITERION™ Barney Miller Broth with Indicator is recommended for the isolation and detection of beer spoilage microorganisms, specifically lactic acid bacteria. Indicator allows for early detection of growth by yellow color change due to pH shift. CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** - 2L mylar® bag – pre-measured for a 2 liter batch, 2kg and 10kg bucket

**Part # C8992**      **2kg bucket - with convenient screw lid**  
**Barney Miller Broth with Indicator, CRITERION™** Dehydrated Culture Media, 2kg bucket, by Hardy Diagnostics

Hardy Diagnostics CRITERION™ Barney Miller Broth with Indicator is recommended for the isolation and detection of beer spoilage microorganisms, specifically lactic acid bacteria. Indicator allows for early detection of growth by yellow color change due to pH shift. CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop

- Convenient handgrip - 'no slip' finger holds
  - Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 2L mylar® bag – pre-measured for a 2 liter batch, 500gm bottle, 10kg

**Part # C6120**      **2L mix mylar® bag – pre-measured for a 2 liter batch, no weighing needed!**

**MacConkey Agar without Crystal Violet, CRITERION™** Dehydrated Culture Media, Mylar® zip-pouch to make 2L, by Hardy Diagnostics. Hardy Diagnostics CRITERION™ MacConkey Agar without Crystal Violet is recommended for the detection of coliforms and enteric pathogens in water, waste water, and foods, as well as for differentiating Mycobacteria fortuitum-chelonae complex from other rapidly growing mycobacteria. CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop

- Convenient handgrip - 'no slip' finger holds
  - Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 500gm bottle, 2kg and 10kg bucket -

**Part # C6121**      **500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

**MacConkey Agar without Crystal Violet CRITERION™** Dehydrated Culture Media, 500gm wide-mouth bottle, by Hardy Diagnostics. Hardy Diagnostics CRITERION™ MacConkey Agar without Crystal Violet is recommended for the detection of coliforms and enteric pathogens in water, waste water, and foods, as well as for differentiating Mycobacteria fortuitum-chelonae complex from other rapidly growing mycobacteria. CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 2L mylar® bag – pre-measured for a 2 liter batch, 2kg and 10kg bucket - with convenient screw lid

# Bacteriological Testing

To ensure quality and freshness, the following items are ordered as required.  
Items are non-cancellable, non-returnable

**Part # C6201**

**500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

**Malt Extract Agar, CRITERION™** Dehydrated Culture Media, 500gm wide-mouth bottle, by Hardy Diagnostics  
Hardy Diagnostics CRITERION™ Malt Extract Agar for the isolation, cultivation and maintenance of yeasts and molds.  
CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** - 2L mylar® bag - pre-measured for a 2 liter batch, 2kg and 10kg bucket - with convenient screw lid

**Part # C6460**

**2L mix mylar® bag - pre-measured for a 2 liter batch, no weighing needed!**

**Nutrient Agar, CRITERION™** Dehydrated Culture Media, Mylar® zip-pouch to make 2L, by Hardy Diagnostics.  
Hardy Diagnostics CRITERION™ Nutrient Agar is a general purpose growth media recommended for use in the isolation and cultivation of nonfastidious microorganisms.  
CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 500gm, 2kg and 10kg bucket

**Part # C6461**

**500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

**Nutrient Agar, CRITERION™** Dehydrated Culture Media, Mylar® zip-pouch to make 2L, by Hardy Diagnostics  
Hardy Diagnostics CRITERION™ Nutrient Agar is a general purpose growth media recommended for use in the isolation and cultivation of nonfastidious microorganisms.  
CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 2L mylar® bag - pre-measured for a 2 liter batch, 2kg and 10kg bucket

**Part # C6462**

**2Kg bucket - with convenient screw lid**

**Nutrient Agar, CRITERION™** Dehydrated Culture Media, 2kg bucket, by Hardy Diagnostics  
Hardy Diagnostics CRITERION™ Nutrient Agar is a general purpose growth media recommended for use in the isolation and cultivation of nonfastidious microorganisms.  
CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 2L mylar® bag - pre-measured for a 2 liter batch, 500gm bottle, 10kg bucket

This is a small sample of media.



Need other media?  
Just let us know

# Bacteriological Testing

To ensure quality and freshness, the following items are ordered as required.  
Items are non-cancellable, non-returnable

## Part # C7290

**2L mylar® bag - pre-measured for a 2 liter batch, no weighing needed!**

### W-L Differential Medium, CRITERION™ Dehydrated Culture Media, 2L

Mylar® zip-pouch, by Hardy Diagnostics

Hardy Diagnostics CRITERION™ W-L Differential Medium is primarily for use in the isolation of bacteria encountered in brewing and industrial fermentation processes.

CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available :** 500gm bottle - 2kg and 10kg bucket

## Part # C7291

**500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

### W-L Differential Medium, CRITERION™ Dehydrated Culture Media, 500gm, by Hardy Diagnostics

Hardy Diagnostics CRITERION™ W-L Differential Medium is primarily for use in the isolation of bacteria encountered in brewing and industrial fermentation processes.

CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available :** 2L mylar® bag - pre-measured for a 2 liter batch, 2kg and 10kg bucket

## Part # C7340

**2L mylar® bag - pre-measured for a 2 liter batch, no weighing needed!**

### Yeast Extract, CRITERION™ Dehydrated Culture Media, 100gm Mylar® zip-

pouch, by Hardy Diagnostics

Hardy Diagnostics CRITERION™ Yeast Extract is prepared and standardized for bacteriological use. It is an excellent stimulator of bacterial growth and is used in culture media in place of, or in addition to, beef extract.

CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available :** 500gm bottle, 2kg and 10kg bucket

## Part # C7341

**500gm bottle - wide mouth, easy grip bottle, comes with a free scoop!**

### Yeast Extract, CRITERION™ Dehydrated Culture Media, 500gm wide-mouth

bottle, by Hardy Diagnostics

Hardy Diagnostics CRITERION™ Yeast Extract is prepared and standardized for bacteriological use. It is an excellent stimulator of bacterial growth and is used in culture media in place of, or in addition to, beef extract.

CRITERION™ Dehydrated Culture Media by Hardy Diagnostics is formulated to meet or exceed the highest standards. Compare these features...

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop
- Convenient handgrip - 'no slip' finger holds

- Stackable containers - for efficient storage
  - Increased solubility - dissolves quickly
  - Custom and bulk products available - to your specifications
  - Competitive pricing - call for a price quote for large volume purchases!
  - Complete technical/instruction sheets - available in HUGO software
  - Unparalleled performance - tested for optimal growth
- Other Container sizes Available:** 2L mylar® bag - pre-measured for a 2 liter batch, 2kg and 10kg bucket

This is a small sample of media.



Need other media?  
Just let us know





# Lab Supplies

## Bags

### Twirl'Em®: Sterile Sampling Bags

These sterile sampling bags with their built-in secure closure tabs are ideal for the shipping and storage of all forms of sample material. Labplas TWIRL'EM® Sterile Sampling Bags provide a secure, contaminant free pliant container that ensures dependable analysis results. You can count on TWIRL'EM® products as a proven, economical and efficient way to collect, contain and carry samples.

Product Advantages:

- Maximum bag mouth opening to facilitate insertion of sample;
- Sterility confirmation documentation available in every box;
- Bags accommodate solid, semi-solid and liquid material;

Product meets USDA and ACIA industry standards and is made with FDA-compliant material.



Part #	Description	Capacity	Dimensions	Thickness Mil. In	Qty
TW-3050C	Plain	2oz/60ml	3" x 5"	2.5	Pk/500
TW-3050P	Write-On	2oz/60ml	3" x 5"	2.5	Pk/500
TW-3070C	Plain	4oz/130ml	3" x 7"	2.5	Pk/500
TW-3070P	Write-On	4oz/130ml	3" x 7"	2.5	Pk/500
TW-3570C	Plain	7oz/210ml	3.5" x 7"	2.5	Pk/500
TW-3570P	Write-On	7oz/210ml	3.5" x 7"	2.5	Pk/500
TW-4512C	Plain	27oz/800ml	4.5" x 12"	2.5	Pk/500
TW-4512P	Write-On	27oz/800ml	4.5" x 12"	2.5	Pk/500

## Beakers

### Glass

Type: Borosilicate, Style: Griffin Low Form

Graduated: Yes,

Autoclaveable to 121 °C,  
Glass Thickness: 3.3mm,  
ASTM E-960



Part #	Details	Grad. Increments	Qty.
BKG-5	5ml	1ml	EA
BKG-10	10ml	1ml	EA
BKG-25	25ml	5ml	EA
BKG-50	50ml	10ml	EA
BKG-100	100ml	10ml	EA
BKG-150	150ml	15ml	EA
BKG-250	250ml	25ml	EA
BKG-400	400ml	25ml	EA
BKG-600	600ml	50ml	EA
BKG-1L	1 litre	50ml	EA
BKG-2L	2 litre	100ml	EA
BKG-5L	5 litre	500ml	EA
BKG-10L	10 litre	1000ml	EA

### Plastic, Reusable

Type: Polymethylpentene, Clear Plastic, Autoclaveable to 121°C, Style: Griffin Low Form, Graduated: Yes



Part #	Details	Grad. Increments	Qty.
BKTPX-50	50ml	5ml	EA
BKTPX-100	100ml	5ml	EA
BKTPX-250	250ml	10ml	EA
BKTPX-600	600ml	10ml	EA
BKTPX-1L	1 litre	25ml	EA
BKTPX-2L	2 litre,	50ml	EA

### Plastic, Reusable

Type: Polypropylene, Non-Clear Plastic,, Style: Griffin Low Form, Graduated: Yes, Autoclaveable to 121 °C



Part #	Details	Grad. Increments	Qty.
BKP-25	25ml	5ml	EA
BKP-50	50ml	5ml	EA
BKP-100	100ml	10ml	EA
BKP-250	250ml	10ml	EA
BKP-500	500ml	10ml	EA
BKP-1L	1 litre	25ml	EA
BKP-2L	2 litre	250ml	EA
BKP-5L	5 litre	500ml	EA
BKP-10L	10 litre	1000ml	EA

### Plastic, Disposable

Type: Polypropylene, Graduated: Yes, OZ/ML, [NOT Autoclaveable]



Part #	Details	Grad. Increments	Qty.
BKPPD-50	50ml	5ml	Pk/100
BKPPD-100	100ml	5ml	Pk/100
BKPPD-150	150ml	5ml	Pk/100
BKPPD-250	250ml	10ml	Pk/50
BKPPD-400	400ml	25ml	Pk/50
BKPPD-600	600ml	25ml	Pk/25

**Don't Forget  
Stir Bars  
On Page 11**

# Lab Supplies

## Bottles

### Glass, Media Reusable with Screw Cap

These borosilicate glass, general purpose media bottles are autoclavable with permanent white imprinted graduations and marking spots. The screw thread opening has an I.D. of approximately 30mm. The supplied GL 45 cap is liner-less and both the cap and drip free ring are polypropylene autoclavable to 140° Celsius. Maximum use temperature of bottles is 450° Celsius.

Part #	Details	Grad. Range (ml)	Qty
2070-100	100ml	20-80	EA
2070-250	250ml	50-200	EA
2070-500	500ml	100-400	EA
2070-1000	1 litre	100-900	EA
2070-2000	2 litre	400-1800	EA
2070-5000	5 litre	500-4500	EA



### HDPE Wide Mouth HDPE Leakproof with Polypropylene Cap



- Leakproof
- Rigid
- Translucent
- Polypropylene Cap
- FDA approved Resin

Part #	Details	Cap Size	Qty
BHDPEWM-30	30ml	28mm	EA
BHDPEWM-60	60ml	22mm	EA
BHDPEWM-125	125ml	38mm	EA
BHDPEWM-250	250ml	45mm	EA
BHDPEWM-500	500ml	55mm	EA
BHDPEWM-1000	1000ml	65mm	EA
BHDPEWM-2000	2000ml	65mm	EA

### Carboy HD Polypropylene, Graduated, with Spigot

Range of high performance autoclavable carboys in a choice of three sizes

- Autoclavable PP, heavy-duty construction
- FDA compliant resin
- Stylish rounded octagonal shape for increased rigidity when full
- Offset neck for easier filling and pouring
- Integral, comfortable blow molded handles for ease of carrying are end-sealed to prevent contamination
- Heavy-duty closures are compatible with other leading brands
- Carboys feature a durable and leak-proof heavy-duty spigot with boss fitting for extra strength
- Spigot features removable tube fitting for added convenience
- Molded graduations allow easy viewing of contents

Part #	Details	Qty
CBPP-5L	5 litre	EA
CBPP-10L	10 litre	EA
CBPP-20L	20 litre	EA



### Wash Bottles, Unitary LDPE

These bottles are made of translucent and low density polyethylene (LDPE). The distinguishing feature of these bottles is the built-in delivery tube which makes it a one-piece wash bottle. Graduated on the outer surface to reflect an approximate volume of solution filled or dispensed.

Part #	Details	Qty
WBP-125	125ml	EA
WBP-250	250ml	EA
WBP-500	500ml	EA



## Brushes

### Brush-Beaker, White Nylon, Heavy Tufted End

Part # BBNW-12

Made of white nylon, nylon spirally wound and counter-sunk in a shellac finished hardwood handle.

Dimensions: 12.7 x 7.3 x 41cm



### Bottle Brush

Part # BCBN-13 & BCBN-17

Sturdy, black bristle Bottle & Cylinder Brushes with galvanized handles to prevent rusting



### Centrifuge Tube Brush

Part # BCT-9

For cleaning 15 mL centrifuge tubes, conical shaped and made of unbleached white bristles twisted in galvanized wire. Total length: 9 inches; bristle section length: 3-1/2 inches, maximum diameter: 7/8 inch.



### Flask Brush, Flexible

Part # BFNFS-16

Made of unbleached white bristles twisted into galvanized wire, mounted on spring steel which adapts itself to the curvature of the flask. Body of brush attached to a plastic handle. Total length: 16 inches; brush part 4 inches long, 1-1/2 inch diameter



Part #	Details	Dimensions	Qty
BBNW-12	Beaker Brush	12.7 x 7.3 x 41cm	EA
BCBN-13	Bottle Brush	50x125x325mm	EA
BCBN-17	Bottle Brush	51x152x430mm	EA
BCT-9	Centrifuge Tube Brush	Total 9" L, 3.5" L brush, 7/8" diam.	EA
BFNFS-16	Flask Brush	Total 16" L, 4" L brush, 1.5" diam.	EA

# Lab Supplies

## Bulbs

### Pipette Filler Bulb (Red )

Part # PFR-00

Red Color. Consists of a rubber bulb with a capacity of 60 ml ( approx. ). With three valves.



### Pipette Filler Bulb (Black)

Part # PFB-01

Black Color. Consists of a rubber bulb with a capacity of 60 ml ( approx. ). With three valves.



### Rubber Bulb

Part # BRR-10 & BRR-15 & BRR-30 & BRR-60

Rubber Bulbs (Natural Rubber)

Contoured shape and heavy wall neck increase grip for easier use with pipettes and syringes.



### Pasteur Pipette Bulb

Part # PPB-2

Latex (Natural Rubber) Dropper Bulbs

Flexible, easy-to-attach bulbs designed for use with Pasteur pipettes, small pipettes, and medicine droppers.

Available in natural colour



Part #	Details	Qty
PFR-00	Pipette Filler Bulb (Red)	60ml EA
PFB-01	Pipette Filler Bulb (Black)	60ml EA
BRR-10	Rubber Bulb	10ml EA
BRR-15	Rubber Bulb	15ml EA
BRR-30	Rubber Bulb	30ml EA
BRR-60	Rubber Bulb	60ml EA
PPB-2	Pasteur Pipette Bulb	2ml Pk/12

# Lab Supplies

## Cylinders

### Glass Economy

Borosilicate Glass Graduated, Single Scale,, Autoclaveable to 121°C

Part #	Details	Grad. Increments	Qty.
CYBG-10	10ml	0.2ml	EA
CYBG-25	25ml	0.5ml	EA
CYBG-50	50ml	1.0ml	EA
CYBG-100	100ml	1.0ml	EA
CYBG-250	250ml	2.0ml	EA
CYBG-500	500ml	5.0ml	EA
CYBG-1L	1 litre	10ml	EA



### Glass CLASS A

Borosilicate Glass Graduated, Double Scale, TD\*, with Bumper, Autoclaveable to 121°C, ASTM E-1272

Part #	Details	Grad. Increments	Qty.
1634AA-5	5ml	0.1ml	EA
1634AA-10	10ml	0.1ml	EA
1634AA-25	25ml	0.2ml	EA
1634AA-50	50ml	0.5ml	EA
1634AA-100	100ml	1.0ml	EA
1634AA-250	250ml	2.0ml	EA
1634AA-500	500ml	5.0ml	EA
1634AA-1L	1 litre	10ml	EA
1634AA-2L	2 litre	20ml	EA

Need Brushes?  
Find them on  
page 19

### Plastic, Reusable

Type: **Polypropylene**, Graduated,, TC\*, Hexagon Base, Autoclaveable to 121°C, ISO 6706



Part #	Details	Grad. Increments	Qty.
CYP-10	10ml	0.2ml	EA
CYP-25	25ml	0.5ml	EA
CYP-50	50ml	1.0ml	EA
CYP-100	100ml	1.0ml	EA
CYP-250	250ml	2.0ml	EA
CYP-500	500ml	5.0ml	EA
CYP-1L	1 litre	10ml	EA
CYP-2L	2 litre	20ml	EA
CYP-4L (Round Base)	4 litre	50ml	EA

### Plastic, Reusable

Type: **Polymethylpentene**, Clear Plastic, Graduated,, TC\*, , Hexagon Base, Autoclaveable to 121°C, ISO 6706



Part #	Details	Grad. Increments	Qty.
CYTPX-10	10ml	0.2ml	EA
CYTPX-25	25ml	0.5ml	EA
CYTPX-50	50ml	1ml	EA
CYTPX-100	100ml	1ml	EA
CYTPX-250	250ml	2ml	EA
CYTPX-500	500ml	5ml	EA
CYTPX-1L	1 litre	10ml	EA
CYTPX-2L	2 litre	20ml	EA

### Plastic, Reusable with HANDLE

Type: **Polypropylene**, Graduated,, with handle, Autoclaveable to 121°C



Part #	Details	Grad. Increments	Qty.
CYPWH-1L	1 litre	10ml	EA
CYPWH-2L	2 litre	20ml	EA

\*TC and TD stand for the phrases "To Contain" and "To Deliver". The TC notation, used on volumetric flasks and (most) graduated cylinders, means that the markings give an accurate measure of the volume contained, but that pouring the liquid into another container will not necessarily deliver the indicated volume. The TD notation, used on burettes and pipets (and some graduated cylinders), means that the apparatus is calibrated to accurately deliver or transfer the stated volume to another container. Each piece of volumetric glassware is marked with its total volume, the notation TC or TD, and a temperature (usually 20°C). The marked temperature indicates the temperature at which the apparatus was calibrated. Since density and volume change with temperature, the volume markings are strictly correct only at the calibration temperatures.

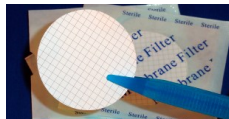
# Lab Supplies

## Filter Paper

### Filter Membrane Sterile

Part # C7141-047

Hydrophilic Mixed Cellulose Esters, 0.45 micron, sterile, gridded, 47mm diameter, pack of 200



Part # C0111V-24.0

Analytical Filter paper, pleated (folded) and packaged Pk/100. Flow Rate is 235mLs/min with retention of 25µm.



Part #	Dimensions	Qty.
C7141-047	0.45µm x 47mm	Pk/200
C0111V-24.0	25µm x 24cm	Pk/100

### Filter Paper, Flasks, Funnels

Looking for Different  
Sizes?  
Types?

Contact us,  
we can get what you need!

Need Stoppers?  
Find them on  
Page 29

## Flasks

### Filtering, Glass

Type: Borosilicate, Heavy Duty, Tooled Top Finish, Wall Side Tubulation, with Stopper, Graduated: Yes, Autoclaveable to 121 °C, Glass Thickness: 3.3mm, ASTM E-1406



Part #	Details	Qty.
2418-250	250ml, #7 stopper	EA
2418-500	500ml, #7 stopper	EA
2418-1L	1 litre, #10 stopper	EA
2418-2L	2 litre, #10 stopper	EA
2418-5L	5 litre, #11 stopper	EA

### Erlenmeyer, Glass

Type: Borosilicate, Narrow Mouth, Heavy Rim, Graduated: Yes, Accuracy +/- 5% at full capacity. Permanent White Markings, Autoclaveable to 121 °C, Glass Thickness: 3.3mm, ASTM E-1404



Part #	Details	Qty.	Stopper Size (not included)
ERG-25	25ml	EA	#0
ERG-50	50ml	EA	#2
ERG-125	125ml	EA	#4
ERG-250	250ml	EA	#6
ERG-500	500ml	EA	#6
ERG-1L	1 litre	EA	#9
ERG-2L	2 litre	EA	#9
ERG-5L	5 litre	EA	#11.5

### Erlenmeyer. Plastic

Type: Polypropylene, Narrow Mouth, Molded Chemically resistant, Graduations are permanently molded into flask, Autoclaveable to 121 °C,



Part #	Details	Qty.	Stopper Size (not included)
ERPP-50	50ml	EA	#2
ERPP-125	125ml	EA	#4
ERPP-250	250ml	EA	#6
ERPP-500	500ml	EA	#6
ERPP-1L	1 litre	EA	#9

# Lab Supplies

## Filtering, Plastic

Type: Polypropylene, Molded in One Piece to withstand full vacuum to 30 inch HG. Tubulation at 45° angle to prevent tipping and accepts 1/4 to 3/8" ID tubing.



Part #	Details	Qty.	Stopper Size (not included)
FFPP-500	500ml	EA	#8
FFPP-1000	1000ml	EA	#10

## Erlenmeyer, Glass with Screw Cap

Type: Borosilicate, Narrow Mouth, Rubber Lined Screw Cap, Graduated: Yes, Autoclaveable to 121 °C, Glass Thickness: 3.3mm



Part #	Details	Qty.
ERGSC-50	50ml	EA
ERGSC-125	125ml	EA
ERGSC-250	250ml	EA
ERGSC-500	500ml	EA
ERGSC-1L	1 litre	EA
ERGSC-2L	2 litre	EA

## Erlenmeyer, Plastic

Type: Polycarbonate, Narrow Mouth, Clear Break Resistant, with Screw Cap, Graduated: Yes, Autoclaveable to 121 °C,



Part #	Details	Qty.
FEPOL-125	125ml	EA
FEPOL-250	250ml	EA
FEPOL-500	500ml	EA
FEPOL-1L	1 litre	EA

## Funnels



### Analytical Funnels

Part # FAPP- (see table for various sizes)

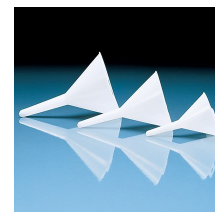
Each funnel is smooth walled and molded from chemical resistant polypropylene. Long stemmed with a 60 degree cone angle and external ribs to prevent air lock.

Part #	Details	Dimensions	Qty.
FAPP-55	Funnel, Polypropylene	50mm	EA
FAPP-65	Funnel, Polypropylene	65mm	EA
FAPP-75	Funnel, Polypropylene	75mm	EA
FAPP-100	Funnel, Polypropylene	100mm	EA
FAPP-240	Funnel, Polyethylene (non-translucent)	11" dia., 4 Qt Capacity	EA

### Powder Funnels, Polypropylene

Part # FPP- (see table for various sizes)

Part #	Diameter	Qty.
FPP-65	65mm	EA
FPP-80	80mm	EA
FPP-100	100mm	EA
FPP-150	150mm	EA



### Glass Ribbed Funnels, Heavy Walled

Part # FGR- (see table for various sizes)



Part #	Qty.	Part #	Qty.		
FGR-02	2oz/60ml	EA	FGR-16	16oz/500ml	EA
FGR-04	4oz/125ml	EA	FGR-32	32oz/1000ml	EA
FGR-08	8oz/250ml	EA	FGR-64	64oz/2000ml	EA

# Lab Supplies

## Hydrometers & Thermometers

### Glass Hydrometers

#### High Precision Top Reading Hydrometers

A.S.B.C. Large Laboratory Type / 240ml of Sample Needed

Hydrometers are guaranteed to be accurate, with a maximum error not exceeding one smallest division of the hydrometer scale or one-half smallest division of the thermometer scale. Hydrometers are supplied combined form with thermometer in body. Temperature of standardization 20°C. Thermometer scale range 0 to 30°C., with temperature correction,

Directions for using these hydrometers are given in Methods of Analysis of the American Society of Brewing Chemists.

Part #	Liquid Test	Scale Range % Plato	Divisions % Plato	Length	Outside Dia.	Qty.
R165030	BEER/WORT	0 TO 8	0.1	330mm (13")	25mm	EA
R165032	BEER/WORT	8 TO 16	0.1	330mm (13")	25mm	EA
R165034	BEER/WORT	16 TO 24	0.1	330mm (13")	25mm	EA

#### Alcohol Hydrometer

Alcohol Hydrometer, with Thermometer, 10 to 100F, Calibrated at 60°F

- Tralle Scale measures the % of alcohol
- Proof Scale measures % of alcohol by volume
- Internal Revenue Specification proof scales
- Plain form and with thermometer (Spirit filled)
- Other temperature standards available
- Suitable for Certification

Part #	Scale Range % Brix	Divisions % Brix	Length	Outside Dia.	Qty.
GW2510CS	0 to 100% Tralle	1%	330mm (13")	22mm	EA
	0 to 200% Proof	2%			

#### BRIX Hydrometers

BRIX % Sugar, Calibrated 20C with thermometer 0 to 50C

- Measure the percent of sugar (Degrees BRIX)
- 1° Brix = 1 Gram in 100g of Solution
- Each Scale Division = % of sucrose by weight
- Temperature standard is 20°C/20°C
- Temperature correction factor on the thermometer scale
- Plain form or with thermometer (spirit filled)
- Other temperature standards available
- Suitable for certification

Part #	Scale Range % Brix	Divisions % Brix	Length	Outside Dia.	Qty.
GW2516C	0 to 12	0.1	330mm (13")	22mm	EA
GW2517C	9 to 21	0.1	330mm (13")	22mm	EA
GW2518C	19 to 31	0.1	330mm (13")	22mm	EA
GW2519C	29 to 41	0.1	330mm (13")	22mm	EA
GW2520C	39 to 51	0.1	330mm (13")	22mm	EA
GW2521C	49 to 61	0.1	330mm (13")	22mm	EA
GW2522C	59 to 71	0.1	330mm (13")	22mm	EA
GW2522XC	69 to 81	0.1	330mm (13")	22mm	EA



#### Cylinder Hydrometer Jar

TPX, Clear Plastic, 500ml, Broad Base for Stability  
Autoclaveable up to 135°C



Part #	Detail	Qty.
CYHJTPX-500	500ml	EA

#### Hydrometer Rack/Stand

Polypropylene rack specially designed to safeguard glass hydrometers. The three tiered rack with handles allows for easy transport & storage.

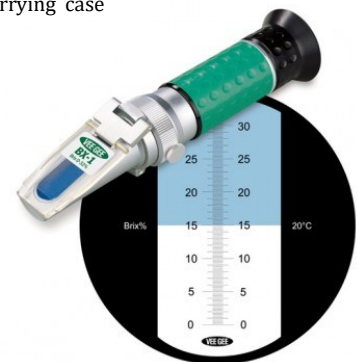
Top 2 plates have 1" diameter holes, bottom plate has wells 1" to 3/8"



Part #	Detail	Qty.
HRPP-12	500ml, Dimensions 8 1/4 L x 8 1/5 W x 9 7/8" H (plate height 7")	EA

#### Refractometer

Hand Held, Brix 0-32%, ATC, 0.2% resolution, sample size >0.1ml, with carrying case



Part #	Detail	Qty.
BTX-1	Refractometer, Hand Held w/ carrying case	EA



# Lab Supplies

## Thermometers

### Plastic Hydrometers

Plastic hydrometers are fabricated from polycarbonate (PC) which makes the instrument shatterproof, while offering glass-like clarity for ease of reading.

All models are plain form, so a separate thermometer should be used to measure the temperature of the sample and correct for any temperature variations.

Temperature standard is 60°F, Length 300mm.

The plastic hydrometers are made for Specific Gravity, Salt-Brine, Baume, Sugar Brix scales.

#### Features:

- Fabricated from Polycarbonate
- Lead-Free Ballast
- Shatter Proof
- Glass-Like Clarity
- Calibrated against NIST Standards
- May be Certified—Traceable to NIST



### Specific Gravity

Part #	Range	Divisions	Length	Qty.
ACC8540PC	1.000 to 1.220	0.002	300mm	EA
ACC8541PC	1.200 to 1.420	0.002	300mm	EA

### Baume

Part #	Range	Divisions	Length	Qty.
ACC8504PC	29 to 41°	0.2°	250mm	EA
ACC8505PC	39 to 51°	0.2°	250mm	EA
ACC8506PC	49 to 61°	0.2°	250mm	EA
ACC8507PC	59 to 71°	0.2°	250mm	EA

### Sugar, Brix

Part #	Range	Divisions	Length	Qty.
ACC8515PC	0 to 15%	0.2°	285mm	EA
ACC8530PC	15 to 30%	0.2°	285mm	EA
ACC8545PC	30 to 45%	0.2°	285mm	EA
ACC8560PC	45 to 60%	0.2°	285mm	EA

### Density Meter, Portable

- Replacement of hydrometers and pycnometer
- Battery acid test
- Brix%, °Baumé or °Plato in Food and Beverages
- API compliant measurements of petroleum products (ASTM D7777)
- Alcohol measurement in wine and beer
- Control of electroplating and photo solutions

#### Specifications:

Measurement range 0 to 2 g/cm<sup>3</sup>. Resolution 0.0001 g/cm<sup>3</sup>  
 Accuracy +/- 0.001 g/cm<sup>3</sup>  
 Temperature range 5-35°; resolution: +/- 0.1°; display: °C or °F

Part #	Length	Qty.
30PX	Density Meter, Portable	EA



### Glass, Partial Immersion

NIST Traceable, Red Spirit Filled, 76mm Immersion, Individually Serialized

Part #	Range	Divisions	Length	Qty.
ACC6093S	-35 to 50°C	1°C	305mm	EA
ACC6113S	-20 to 110°C	1°C	305mm	EA
ACC6133S	-20 to 150°C	1°C	305mm	EA
ACC6153S	-10 to 200°C	1°C	305mm	EA
ACC6173S	-10 to 260°C	1°C	305mm	EA



### Nickel Plated Brass Replacement Armors



Part #	Length	Qty.
ACC12ARM	305mm (12")	EA

### Digital, Long Stem

- Range: -50 to 300°C
- Stainless Steel Stem w/ Probe Cover
- NIST Traceable w/ Certificate
- C/F Switchable
- Resolution: -20 to 200° = 0.1°, outside range 1.0°
- Accuracy: +/- 1.0°C between -30 to 150°C



Part #	Details	Qty.
ACC310DIG	8" Stem	EA
ACC310DLS	12" Stem, with Minimum/Maximum Recall	EA

### Dial Thermometer

Stainless Steel, -10 to 110°C, Dial 1.75", with 8" stem



Part #	Length	Qty.
ACCG1110C	Dial Thermometer	EA

### Thermometer Rack

Suitable for holding up to 25 thermometers in the correct vertical position, thus avoiding mercury separation, which may occur when thermometers are stored improperly.

Manufactured from 1/4" high density polyethylene, the rack is sturdy and will not tip. Sides have large comfortable carry handles for easy transport of the thermometers. Hole diameters in top and middle plates 5/16". The bottom plate has convenient 1/8" drain holes.

Part #	Length	Qty.
TR-00	Thermometer Rack	EA



# Lab Supplies

## Parafilm

Adheres quickly and firmly to itself. Excellent for covering culture tubes and flasks and sealing Petri dishes. Excellent resistance to air and other gases, alcohol and common acids and moderately concentrated alkalis. Flexible waterproof backing to prevent sticking. It is semi-transparent and practically colorless and odorless. Available in 4 sizes. Supplied in dispenser cartons

Part #	Details	Qty.
PFM-4125	4" x 125' Roll	EA
PFM-4250	4" x 250' Roll	EA
PFM-2050	20" x 50' Roll	EA



## Ph Buffer Solution & Other Solutions

Liquid is colour coded for instant identification of pH value in either the bottle or container used for test.

Part #	pH Value	Size	Qty.
PHBS4-500	4	500ml	EA
PHBS4-1L	4	1 litre	EA
PHBS7-500	7	500ml	EA
PHBS7-1L	7	1 litre	EA
PHBS10-500	10	500ml	EA
PHBS10-1L	10	1 litre	EA



Part #	Details	Size	Qty.
PHES-500	Electrode Storage Solution	500ml	EA
PHCS-500	Electrode Cleaning Solution	500ml	EA



## Pipetting Supplies

### Pipette Fillers

**Part # PFR-** (see table below for various sizes)

Good quality pipettors designed for easy and precise pipetting. Pumps feature a lever for quick release, and forward or backward wheel movement. The soft elastic chuck has a threaded collar to tightly grip glass or plastic pipettes. Easy to clean.

Part #	Details	Qty.
PFB-2	2ml, Blue	EA
PFG-10	10ml, Green	EA
PFR-25	25ml, Red	EA



### Sterile Pipettes

**Part # PDSPS-** (see table below for various sizes)  
Individually wrapped, plastic disposable, serological

Part #	Capacity	Grad.	Qty.
PDSPS-1	1ml	1/10µl	Cs/500
PDSPS-5	5ml	1/10µl	Cs/200
PDSPS-10	10ml	1/10µl	Cs/200
PDSPS-25	25ml	2/10µl	Cs/200
PDSPS-50	50ml	5/10µl	Cs/50



### Sterile Pasteur Pipettes Disposable

**Part # PPGF-** (see table below for various sizes)

Fabricated of soft glass (Flint) and having a uniform constriction for cotton plugging.

Part #	Details	Qty.
PPFG-146	5.75" length	Pk/250
PPFG-229	9.0" length	Pk/250



### Pipettes Disposable

**Part # TPP-** (see table below for various sizes)

These one-piece, unbreakable polyethylene plastic pipettes are well-suited for blood banking (2 mL size), urinalysis, hematology, wet chemistry, microbiology, and serology.

Part #	Details	Qty.
TPP-5	5ml	Pk/50
TPP-7	7ml	Pk/500



# Lab Supplies

## Single Channel Adjustable Pipettes

### Pearl™ Pipettes Adjustable Volume

**Part # SCPA-** (see table below for various sizes)

Precision liquid handling. A complete range of single channel pipette volumes to cover all your possible needs. The sleek ergonomic design and reduced plunger pressure help reduce the chance of RSI, as the pipettes require 2/3rd the operation pressure of most standard pipettes. Each pipette is tested in accordance with standards and a calibration certificate is supplied. Precision metal components for both shaft and barrel ensure reliable performance and long life. Each unit is color coded and labeled with volume range (both top and side for quick visual confirmation). Manufactured in accordance with ISO9001 and GLP regulations.

- Internal metal parts for increased accuracy and calibration stability
- Easy volume adjustment with locking tab to prevent accidental change
- Separate tip ejector and a large digital volume display
- CE certified
- Autoclavable
- **Features:**  
Volume adjustment and low-force dispensing all in one button for convenience
- Slight downward slant to tip ejector button reduces hand fatigue, incidence of repetitive strain injury (RSI)
- Isolated volume locking ring prevents accidental volume changes
- Finger hook
- 3-position volume display
- Universal tip cone

Part #	Details	Qty.
SCPA-10	05-10µl, Light Blue	EA
SCPA-100	10-100µl Blue	EA
SCPA-1000	100-1000µl Blue	EA
SCPA-10000	1000-10000µl Red	EA



## Transferpette® S Pipette

**Part # 704774**

The Transferpette® S is the product of intensive ergonomic and operational studies, and the application of innovative materials. It is the perfect manual pipette for demanding laboratory scientists who prefer a traditional control layout. The Transferpette® S offers robust yet lightweight construction, superior autoclavability, simple, one-handed operation, high degree of accuracy and precision and Easy Calibration™ technology for long lasting reliability. The single channel model is available in fixed volume and digital models in volume ranges from 0.1µL to 10mL. The multichannel model is available in 8- or 12-channels in volume ranges from 0.5µL to 300µL.

Product Features:

- One-handed volume adjustment with brake to protect against accidental volume changes
  - 12.5mm piston stroke-length is shortest of all leading pipettes
  - Easy Calibration™ technology ensures fast, easy, in-lab calibration adjustments without tools
  - Four-digit volume display is always visible
  - Accepts universal tips
  - Completely and repeatedly autoclavable at 121°C/250°F (20 minutes)
- Multichannel models have patented individually removable/replaceable tip cones for easy in-lab cleaning and service and V-rings for low-force tip mounting and ejection

## Glass Pipettes Serological/Volumetric

**Serological:** Graduations and markings are permanently enameled on the glass. a large tip opening to allow more rapid intake and delivery of suspensions and viscous materials. All sizes graduated in 1/10 mL subdivisions.. Tempered Tip, Large Tip Opening, Pyrex.

**Volumetric:** These pipets meet the Class A tolerances of capacity, as specified by the National Bureau of Standards.

Part #	Capacity	Sub. Division	Colour	Class	Qty.
<b>Serological</b>					
1605A-1	1ml	0.1	Red	A	EA
1605A-2	2ml	0.1	Green	A	EA
1605A-5	5ml	0.1	Blue	A	EA
1605A-10	10ml	0.1	Orange	A	EA
1605A-11	1ml	0.01	Yellow	A	EA
1605A-25	25ml	0.1	White	A	EA
<b>Volumetric</b>					
1595A1-1	1ml		Blue	A	EA
1595A1-2	2ml		Orange	A	EA
1595A1-5	5ml		White	A	EA
1595A1-10	10ml		Red	A	EA
1595A1-25	25ml		Blue	A	EA
1595A1-50	50ml		Red	A	EA



## Disposable Pipette Tips

**Part # PTYP-200**

pipette tips are produced using the most advanced cleanroom techniques to ensure consistently high quality. The tips are manufactured in an environmentally friendly manner using only high-purity polypropylene, free from oleamide and diHMDA - additives which can interfere with biological tests.

Part #	Details	Qty
PTYP-200	2 -200µl Yellow	Pk/200 Cs/1000



## Pitchers

**Part # PIP-** (see table below for various sizes)

The measuring jugs are made of molded polypropylene with raised graduations and a sturdy reinforced handle. They are translucent and have good chemical resistance

Part #	Details	Qty
PIP-250	250ml	EA
PIP-500	500ml	EA
PIP-1L	1 litre	EA
PIP-3L	3 litre	EA
PIP-5L	5 litre	EA



# Lab Supplies

## Racks

### Racks, Drying

#### Part # DRPS-72

#### Drying Rack High Impact Polystyrene

- Expandable, fasteners to connect additional racks included
- Interchangeable, removable pegs
- NEW Acrylic stand for our most popular drying rack

This 72 place drying rack is molded of high impact polystyrene. It comes supplied with 72 large pegs, draining tubes, fastening stoppers, and expansion hanging hooks which allow coupling with additional racks. The pegs are 4" long and the drip ledge measures 3".



#### Part # DRABS-20

The ABS plastic draining rack provides an excellent option for post-wash draining of tubes and bottles. The back plate has 20 holes into which pegs are tightened with the help of screw-nuts. The bottom of the rack features a waste water tray and drain.



## Gloves

### Nitrile Gloves

#### Part # GLNPF- (see table for various sizes)

Powder free, Premium quality, Ambidextrous, Short beaded cuff, Micro-textured, Non-sterile, Single use, Latex free



Part #	Qty	Part #	Qty.
GLNPF-S Small	Box/100	GLNPF-L Large	Box/100
GLNPF-M Medium	Box/100	GLNPF-XL Extra Large	Box/100

### Silicone Rubber Protective Hand Grip

#### Part # RGHP-00

These silicone rubber mitts are designed to comfortably fit your hand. The full-hand version has internal ribs in the pocket for added dexterity. Mitt have studded, oversized surfaces for secure grip. Mitt withstands temperatures from -70 to 500°F (-57 to 260°C).



### Samplers

- Graduated Dipper
- 2 Pour spouts
- PVC hand grip
- 500ml & 1000ml beaker

High density polyethylene dipper for removing samples from large tanks. Made in the USA, these plastic dippers are lightweight but durable.

Part #	Details	Qty.
SD500-3	3ft length	EA
SD500-6	6ft length	EA
SD500-12	12ft length	EA



## Aprons

Aprons-Rubberized Cloth - A must have in the laboratory. Chemically resistant for additional protection from harmful chemicals.

Part #	Qty.
ARPN-3627 36 x 27"	EA
ARPN-4227 42 x 27"	EA
ARPN-4236 42 x 36"	EA
ARPN-4636 46 x 36"	EA



## Safety

## Glasses

### Part # SGD-00

Two styles of comfortable and light-weight glasses. These clear goggles can be worn over prescription glasses. Includes wrap-around side shields and anti-glare browguard



### Part # GSPS-00

Soft vinyl goggles with perforations for maximum ventilation offer comfort and protection from flying particles, dust, and splash. Fit comfortably even over large size prescription glasses. Optical quality plastic lens.



### Autoclave Gloves

#### Part # GLHR- (see table for various sizes)

- Heat-resistant up to 232°C (450°F)
- Soft, pliable Clavies® gloves are excellent for handling hot objects out of the autoclave or oven
- made of cotton/terry cloth orange colour keeps them highly visible
- washable
- Gauntlets provide wrist and forearm protection



Part #	Details	Qty.
GLHR-13	13" length	Pair
GLHR-18	18" length	Pair

### Chemical Gloves

#### Part # GLNHW-14

Heavy, neoprene coated for chemical protection. Unlined, 14 inches long. Black



## Sample Jars

### Part # C567-1204

120ml, single sided, yellow cap, non-sterile



### Stir Rods, Glass

5mm O.D., glass with rounded fire polished end

Part #	Details	Qty.
GSR-8	8" length	EA
GSR-10	10" length	EA
GSR-12	12" length	EA



# Lab Supplies

## Stoppers Black Rubber Stopper, Solid

## Black Rubber Stopper, with 1 Hole



Part #	Stopper Size	Details Top Dimension x Bottom Dimension (mm)	Qty.
RSBS-0	0	17 x 13	EA
RSBS-00	00	15 x 10	EA
RSBS-000	000	12 x 9	EA
RSBS-1	1	19 x 14	EA
RSBS-2	2	20 x 16	EA
RSBS-3	3	24 x 18	EA
RSBS-4	4	26 x 20	EA
RSBS-5	5	27 x 23	EA
RSBS-5.5	5.5	28 x 24	EA
RSBS-6	6	32 x 26	EA
RSBS-6.5	6.5	34 x 27	EA
RSBS-7	7	37 x 30	EA
RSBS-8	8	41 x 33	EA
RSBS-9	9	45 x 37	EA
RSBS-10	10	50 x 42	EA
RSBS-10.5	10.5	53 x 46	EA
RSBS-11	11	56 x 48	EA
RSBS-11.5	11.5	60 x 52	EA
RSBS-12	12	64 x 54	EA
RSBS-13	13	68 x 58	EA
RSBS-13.5	13.5	75 x 62	EA
RSBS-14	14	90 x 75	EA
RSBS-15	15	103 x 83	EA

Part #	Stopper Size	Details Top Dimension x Bottom Dimension (mm)	Qty.
RSB1H-0	0	17 x 13	EA
RSB1H-00	00	15 x 10	EA
RSB1H-1	1	19 x 14	EA
RSB1H-2	2	20 x 16	EA
RSB1H-3	3	24 x 18	EA
RSB1H-4	4	26 x 20	EA
RSB1H-5	5	27 x 23	EA
RSB1H-5.5	5.5	28 x 24	EA
RSB1H-6	6	32 x 26	EA
RSB1H-6.5	6.5	34 x 27	EA
RSB1H-7	7	37 x 30	EA
RSBS1H-8	8	41 x 33	EA
RSB1H-9	9	45 x 37	EA
RSB1H-10	10	50 x 42	EA
RSB1H-10.5	10.5	53 x 46	EA
RSB1H-11	11	56 x 48	EA
RSB1H-11.5	11.5	60 x 52	EA
RSB1H-12	12	64 x 54	EA
RSB1H-13	13	68 x 58	EA
RSB1H-13.5	13.5	75 x 62	EA
RSB1H-14	14	90 x 75	EA
RSB1H-15	15	103 x 83	EA

## Timers

Part #	Details.	Qty.
5009	Triple Timer/Clock; Three channels to count up/down with Simultaneous display, time-out, and 60 second audible alarm Channels may be started independently or simultaneously Timer automatically counts. 86 x 66 x 22 mm	EA
5004	A pocket size timer with four count-down channels each channel can be set from one second to 100 hours. One channel can be used as a count-up channel for the same time period. In the CLOCK mode hours, minutes and seconds are displayed with an AM/PM indicator, 12 or 24 hour modes may be chosen. Measures 2-3/4 x 2-1/2 x 5/8". Pocket clip magnet and button cell battery are included.. Certificate indicating traceability to NIST Standards.	EA
24651	TIME TRACKER, Makes it easy to monitor your process from a distance. Designed like a traffic signal so the meaning of each light is intuitive. Green means less than half done; yellow means more than half done, and red means finished. Programmable time. Six different audible alerts. LCD display with 8 mm high characters, 10 characters across. Operates on 110 VAC adapter (included) 112 x 118 x 230 mm	EA
24563	TIME TRACKER® MINI; Based on the original Time Tracker®, the Mini is an economical option intended for easy use visual indicator features lighted dome — green light during count own; yellow for the designated "warning" time; red when time has expired. Total alarm time ranges from 5 to 120 minutes in 5-minute increments Volume control and audible warning alarm Requires 3 aaa batteries, not include 83 x 83 x 121 mm	EA

## Tubes, Sample

- Lot-to-lot traceability with easy tear packaging
  - Writing area and flat polyethylene lids for easy labelling
  - Imprinted graduations and a self-standing version (only in clear bulk pack)
- Reusable card used for the racked versions, making them more environmentally friendly

Part #	Details	Qty.
CCTS-15ml	OD 17 mm length 120 mm ; Graduations: 0.5 mL, Max RCF Rating: 11,000 x g	Pk/50
CCTS-50ml	OD 29 mm length 114 mm ; Graduations: 5.0 mL, Max RCF Rating: 9,500 x g	Pk/25 or Cs/500
CCTSS-50 (skirted)	OD 29 mm + 0.3 mm length 114 mm; Graduations: 5.0 mL Max RCF Rating: 9,500 x g	Pk/25 or Cs/500

# Microscopy & Supplies

## Economy, Monocular



- Modern design with convenient Handle on arm of microscope for easy and safe transfer from workspace to workspace
- 45° inclined head, rotatable 360°
- 10x wide-field eyepiece with pointer
- Achromatic colour coded 4x, 10x, and 40XR objectives
- Separate coarse and fine focusing
- 3.5" round moveable stage
- Reverse triple nosepiece with positive click stops
- LED Corded
- Light Intensity control
- Vinyl dust cover
- 5 Year Limited Warranty

Part #	Details	Qty.
M1000-100	Microscope, Economy Monocular	EA

- Modern design with convenient Handle on arm of microscope for easy and safe transfer from workspace to workspace
- 45° inclined head, rotatable 360°
- 10x wide-field eyepiece with pointer
- Achromatic colour-coded 4x, 10x, 40XR 100XR DIN Objectives
- Colour coded objectives are parcentered and parfocaled
- Coaxial coarse and fine focus controls
- Reverse triple nosepiece with positive click stops
- LED Corded Light Intensity control
- Built-in 1.25 N.A Abbe Condenser with Iris Diaphragm
- Built in mechanical stage
- Vinyl dust cover
- 5 Year Limited Warranty

Part #	Details	Qty.
M1000-101	Microscope, Monocular	EA

- 45°inclined/360° rotatable Monocular head
- IPD 54-74mm
- WF 10x/18mm focusable and lockable eyepiece
- Quadruple nose piece
- Finite LP Series DIN Semi-Plan Achromatic objectives: 4x, 10x, 40x, 100x oil
- Stage 135 x 124mm with x/y travel range 76 x 50mm
- Sub-stage Abbe condenser NA 1.25 with snap blue filter
- Halogen illumination with intensity control
- 100v-240v AC universal power supply
- Includes spare bulb and fuse, immersion oil, dust cover, and cleaning cloth

Part #	Details	Qty.
M1100-100	Microscope, Binocular	EA

## Microscopes

### Monocular



### Binocular



## Binocular with 3.0MP Camera



- 45°inclined/360° rotatable Binocular head
- IPD 54-74mm
- WF 10x/18mm focusable and lockable eyepiece
- Quadruple nose piece
- Finite LP Series DIN Semi-Plan Achromatic objectives: 4x, 10x, 40x, 100x oil
- Stage 135 x 124mm with x/y travel range 76 x 50mm
- Sub-stage Abbe condenser NA 1.25 with snap blue filter
- Halogen illumination with intensity control
- 100v-240v AC universal power supply
- Includes spare bulb and fuse, immersion oil, dust cover, and cleaning cloth
- Camera Specifications
- 1/2" 3.0MP colour CMOS sensor (active area 4.52 x 3.40mm) with resolution of 2048 x 1536pixels
- 30 frames per second
- Includes USB cable and PixelPro software for image capture management, compatible with Microsoft XP/Vista/Windows 7

Part #	Details	Qty.
M1100-300	Microscope, Binocular with Camera	EA

# Microscopy & Supplies

## Microscope Supplies

### Microscope Slides, Plain

Part # MSP-3x1

- Plain rectangular
- Size: 25.4 x 76.2mm (1 x 3")
- Thickness: 1 - 1.2mm thick
- 144 package



### Lens Paper

Part # MLP-000

- Soft, clean, non-abrasive paper for cleaning lenses, prisms and microscope slides.
- Lint free
- 150 x 100mm
- 50 sheets

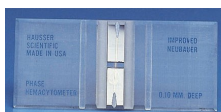


### Hemocytometer

Part # 3500

The Dark-Line Hemocytometer is of one piece construction, ensuring long term durability and accuracy. An H-shaped moat forms two counting areas, or plateaus. A "V" slash at the loading side of each plateau facilitates charging and reduces the possibility of overflow into the moat. Each plateau features enhanced Neubauer rulings. The ruled surface is 0.1mm below the cover glass, limiting the volume of blood or fluid over a square mm at 0.1cu.mm and over each of 400 squares (within the central square mm) to 0.00025 cu. mm. Contact of the flat, polished cover glass surface with cover glass supports produces an exact volume of fluid over the counting area.

- Chamber with 2 cover glass



### Cover Slips

Part # CS-18x18

- Size: 18 x 18mm
- Thickness: 1mm
- Style: Square #1
- 1 box of 100 slips

Part # CS-22x22

- Size: 22 x 22mm
- Thickness: 1mm
- Style: Square #1
- 1 box of 100 slips



### Lens Cleaner

Part # LC-2oz

- Lens cleaner is used for optical glass surfaces, leaving a clear, non-streaking finish. Bottle has a dropper plug for easy dispensing and a no spill use.
- 2 ounce bottle



### Stain, Methylene Blue

Part #4850-4

- Methylene Blue 1% Stain
- 120ml Bottle



### Tally Counter

Part # HTC-01

Use for counting blood cells, bacterial colonies, drops of liquid or any repetitive event.

- Tallies up to 9999
  - Features a quick-reset knob
  - Lens for easy reading, and finger ring for a secure grip
- 1.8 dia. x 1.6 w in (4.6 dia. x 4.1 w cm)



Part #	Details	Qty.
MSP-3X1	Microscope Slides, Plain	Pk/144
CS-18X18	Cover Slips 18mm x 18mm	Pk/100
CS-22X22	Cover Slips 22mm x 22mm	Pk/100
MLP-000	Lens Paper	Pk/50
LC-2oz	Lens Cleaner 2oz	EA
3500	Hemocytometer	EA
4850-4	Stain, Methylene Blue	EA
HTC-01	Hand Tally Counter	EA

# Microbiological

## Petri Dishes

### Part # 3114-058

Diameter: 60mm

Height: 15mm

Vents: 3

Units: 600 Dishes

This dish saves space in refrigerators and incubators, and is ideal when small quantities of media are used. It accommodates single membrane filters for water and pharmaceutical testing. North American produced under strict sterility requirements, these petri dishes are the ultimate in quality. Packed in cases of 600 rather than the traditional case of 500, these dishes deliver more product for the weight. These dishes are sterile, transparent, rugged and flat bottomed. The quality is exceptional.



### Part # 3114—360

Diameter: 100mm

Height: 15mm

Vents: 4

Units: 600 Dishes

The unique recessed lid on this dish offers excellent stacking stability and saves space. It works with most models of media pouring equipment, an absolute must for manual pourers. Four ventilation lugs on underside of lid allow for venting, and prevent condensation from developing and dripping onto culture. The extremely flat bottom allows a reduction in the amount of media required. Patented cross ribs on the bottom make the dish resilient and resistant to warpage when the media is poured at a high temperature. Excellent for performing colony counts, since ribs provide a useful border for making quadrants.

North American produced under strict sterility requirements, these petri dishes are the ultimate in quality. Packed in cases of 600 rather than the traditional case of 500, these dishes deliver more product for the weight. These dishes are sterile, transparent, rugged and flat bottomed. The quality is exceptional.



## INOCULATING NEEDLE / LOOPS

Combination provides choice to spread or pick colonies and cultures. Transfer bacterial cultures without risk of contamination

- Use loop end to uniformly streak a gel surface
- Use needle end for removal of colonies
- rigid ABS
- Disposable, sterile, 20 per zip bag with lot-to-lot traceability

Part #	Details	Qty.
INLSR-1	1µL, 200L x 4mm D	Pk/1000
INLSR-10	10µL, 200L x 4mm D	Pk/1000





