



ESBE *Scientific*

Focus on BREWERIES



incubators
homogenizers
biosafety cabinets
fume hoods
viability counters
centrifuges
mixers shakers
filters
pipettes
swabs



Heated and Cooled Incubators

Multiple programming capability through wide temperature range with excellent chamber uniformity

Heated -10°C up to +60°C

Cooled +5°C up to +80°C

Ideal for

- chemical testing, e.g. stability, acid/alkali, durability
- food industry for packaging, quality control and stability
- testing for waste water, BOD, and soil
- microorganism culturing, germination experiments, and nucleic acid cloning ligations

3.3 cu.ft. ✱ PAN-MIR162PA

5.4 cu.ft. ✱ PAN-MIRH26PA

4.3 cu.ft. ✱ PAN-MIR154PA

8.4 cu.ft. ✱ PAN-MIR254PA

14.3 cu.ft. ✱ PAN-MIR554PA



-86°C Ultra-Low Upright Freezers



VIP ECO

- Natural refrigerants minimize environmental impact without jeopardizing ultra-low temperature freezer performance refrigerants
- Performance reliability
- Lowest daily energy usage of any model in its class

25.7 cu.ft. PAN-MDFDU702VHPA



Precellys Evolution Super Homogenizer

The most efficient and flexible homogenizer.

- Super fast: up to 10,000 RPM for very hard samples
- Super strong: high quality manufacturing
- Super flexible: 4 sizes of tubes from 0.5mL to 15mL
- Super efficient: powerful 3D motion
- Super easy: automatic tubes locking system



24 x 2mL | 12 x 7mL | 6 x 15mL

BER-EQ02520200RD0000

Cellometer® X2 Fluorescent Viability Counter



- Yeast concentration and viability measurement by Bright Field & Fluorescence
- Cell viability measurement accuracy and reliability
- Viability and vitality in the ale and lager yeast strains
- ViaStain AOPI Yeast (NEX-CSK010210)

NEX-CELLOMETERX2



Captair Smart Ductless Fume Hood



Ductless Filtering

- Erlab's unique Flex Filtration can manage most lab applications
- Simple, intuitive communication by light shows the status of the hood
- Sensors to detect filter saturation
- Face velocity is automatically monitored
- Very low energy consumption - Reduced running costs
- 6° slanted sash offers optimal visibility and an ergonomic work space
- Large openings for easy access to your work



SterilGARD® e3 Biosafety Cabinet

BAKER

Class II Type A2

- Up to 60% increase in energy efficiency with brighter lighting system for easier viewing and reduced eyestrain
- Safest work environment with new StediFLOW™ self-adjusting motor technology
- Most comfortable working environment available with reduced noise and vibration
- 30% more filter life and less impact on the environment
- Versatile ReadySAFE™ mode can be used during meetings, lunch breaks and overnights to maintain safe conditions, create a quieter work environment, and save energy



4 ft: BKR-SG404UVSP
6 ft: BKR-SG604UVSP



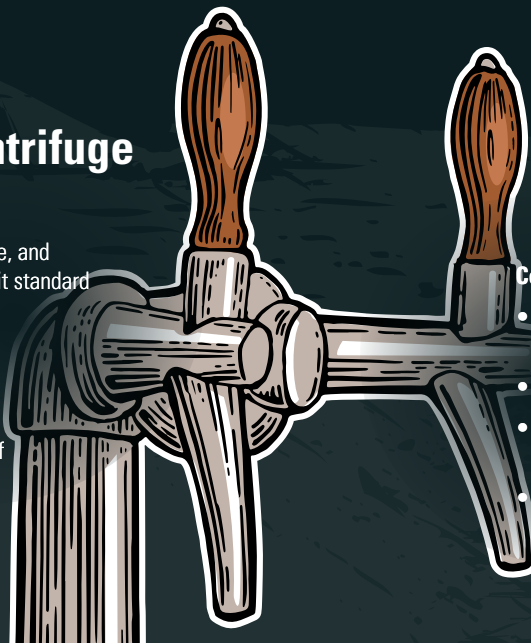
MIKRO 185 Research Centrifuge

Compact and Powerful

- Option of 12-place, 18-place, and 24-place angle rotors that fit standard microliter tubes
- Plus an 18-place rotor that conveniently supports spin columns
- All rotors have the option of bio-containment lids



HET-120301



Co-Mix Mixer and Shaker

Compact and Powerful

- Excellent stability and control at high speeds (>3000RPM)
- Pre-loaded with commonly used mixing profiles
- Customize, name and store up to 100 unique, user-defined mixing profiles
- Visual countdown timer and audible alert for completion of mixing or vortexing



RAININ Classic™ Single Channel Pipettes

Description	Order No.
0.1 - 2 µL Rainin Classic Pipette	MET-PR2
0.5 - 10 µL Rainin Classic Pipette	MET-PR10
2 - 20 µL Rainin Classic Pipette	MET-PR20
10 - 100 µL Rainin Classic Pipette	MET-PR100
20 - 200 µL Rainin Classic Pipette	MET-PR200
100 - 1000 µL Rainin Classic Pipette	MET-PR1000
500 - 5000 µL Rainin Classic Pipette	MET-PR5000
1000 µL - 10 mL Rainin Classic Pipette	MET-PR10ML
Starter Kit* Rainin Classic Pipette	MET-PRSTART

* Starter Kit includes 20, 200 & 1000 µL pipettes, 3 magnetic hangers, and 1 each RT250 & RT1000 tips.



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ESK Environmental Sampling Kits



Swab to Validate Brewery Cleanliness



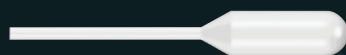
Description	Order No.
EnviroMax® Dry Sampling Kit, 6", Pointed Foam Tip, Sterile, 25x1/EA	HAP-2588010PF
EnviroMax® Dry Sampling Kit, 6", Rounded Foam Tip, Sterile, 25x1/EA	HAP-2588010PFRND
EnviroMax® Plus Pre-Moistened Sampling Kit, 6", Pointed Foam Tip, Sterile, 25x1/EA	HAP-2588050PF
EnviroMax® Plus Pre-Moistened Sampling Kit, 6", Rounded Foam Tip, Sterile, 25x1/EA	HAP-2588050PFRND
ESK® Environmental Sampling Kit, 4", Sterile, 4mL Buffered Peptone Water, 50x1/EA	HAP-2583004PDBPV
ESK® Environmental Sampling Kit, 4", Sterile, 10mL Buffered Peptone Water, 50x1/EA	HAP-2583010PDBPV
ESK® Environmental Sampling Kit, 4", Sterile, 4mL Butterfield's Solution, 50x1/EA	HAP-2583004PDBS
ESK® Environmental Sampling Kit, 4", Sterile, 10mL Butterfield's Solution, 50x1/EA	HAP-2583010PDBS
ESK® Environmental Sampling Kit, 4", Sterile, 4mL Lethen Broth, 50x1/EA	HAP-2583004PDLB
ESK® Environmental Sampling Kit, 4", Sterile, 10mL Lethen Broth, 50x1/EA	HAP-2583010PDLB
ESK® Environmental Sampling Kit, 4", Sterile, 4mL Neutralizing Buffer, 50x1/EA	HAP-2583004PDNB
ESK® Environmental Sampling Kit, 4", Sterile, 10mL Neutralizing Buffer, 50x1/EA	HAP-2583010PDNB

Bacteria, specifically lactobacillus bacteria, is the most common form of contamination in breweries. Unclean lines are the most common reason that bacteria will develop, and the heat exchanger has the greatest potential for harbouring bacteria.

One of the easiest ways to validate the food safety procedures is to swab for bacterial growth in areas through which the beer must pass, including cleaned-in-place fermenter hose ends, exit ports from hard piping, plate cooler, filter, keg interiors and filling heads.

Puritan Medical Products produces a range of bacterial swabs and environmental sampling kits.

P200 DROPETTE® Disposable Transfer Pipettes



These all-in-one pipettes eliminate the hazard of broken glass and exposure to infectious materials. Put an end to matching rubber bulbs with glass pipettes.

Molded from see-through low density polyethylene. Inert to biological fluids and most acids. Can be sealed and refrigerated. They work well whenever there is a need for quick, safe transfer of fluids.

Simport

Capacity	Length	Bulb Draw	Qty	Order No.
1.2mL	6.3cm	0.9mL	500/EA	SIM-P20010
1.5mL	11.4cm	0.8mL	500/EA	SIM-P20014
1.7mL	8.7cm	0.9mL	500/EA	SIM-P20020
3mL	13.8cm	2.1mL	500/EA	SIM-P20030
4mL	15.5cm	3.1mL	500/EA	SIM-P20044
5mL	15cm	3.1mL	500/EA	SIM-P20052
5mL	15.5cm	1.9mL	500/EA	SIM-P20056
5mL	15.6cm	1.8mL	500/EA	SIM-P20058
6mL	22.5cm	2.3mL	500/EA	SIM-P20060
7mL	15.5cm	3.2mL	500/EA	SIM-P20072
8mL	15cm	4.6mL	400/EA	SIM-P20082

Syringe Filters



Colour coded for easy membrane identification!

Syringe Filters are ideal for filtering culture media and organic solvents in a wide range of applications.

All items are tested for filter efficiency and housing integrity. Filter housing is manufactured and tested to withstand pressures of up to 75 PSI (5.1 Bar).



Material	Diameter	Membrane	Sterile	Colour	Qty	Order No.
MCE	30 mm	0.22 µm	Yes	Yellow	45/EA	ARG-FM32S
MCE	30 mm	0.45 µm	Yes	Yellow	45/EA	ARG-FM34S
Nylon	13 mm	0.45 µm	No	Pink	100/EA	ARG-FN14
Nylon	30 mm	0.45 µm	No	Pink	50/EA	ARG-FN34
Nylon	30 mm	0.22 µm	Yes	Pink	45/EA	ARG-FN32S
Nylon	30 mm	0.45 µm	Yes	Pink	45/EA	ARG-FN34S
PES	13 mm	0.22 µm	Yes	Green	100/EA	ARG-FE12S
PES	13 mm	0.45 µm	Yes	Green	100/EA	ARG-FE14S
PES	30 mm	0.22 µm	Yes	Green	45/EA	ARG-FE32S
PES	30 mm	0.45 µm	Yes	Green	45/EA	ARG-FE34S
PTFE	30 mm	0.22 µm	No	White	50/EA	ARG-FT22
PTFE	30 mm	0.45 µm	No	White	50/EA	ARG-FT24
PVDF	13 mm	0.22 µm	Yes	Blue	100/EA	ARG-FV12S
PVDF	30 mm	0.22 µm	Yes	Blue	45/EA	ARG-FV32S
PVDF	30 mm	0.45 µm	Yes	Blue	45/EA	ARG-FV34S



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