

# VACUSAFE *comfort*

Vacuum-controlled aspiration system

40 YEAR ANNIVERSARY  
SAVE up to  
**\$242**



Liquid Handling Stand



VACUBOY Hand Controller

- Adjustable aspiration strength – perfect for delicate cells
- Ideal tool for aspiration, disposal and filtration of hazardous liquids
- NEW Liquid Handling Stand integrates the PIPETBOY and the VACUBOY into a complete liquid handling station
- Silent operation
- Eliminates contamination of the laboratory vacuum system
- Compact size (L x W x H): 255 x 180 x 150mm, without bottle
- All parts in contact with fluids are autoclavable



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
VACUSAFE <i>comfort</i> compact pump station. Includes VACUBOY, 4L polypropylene bottle and lid with quick couplings level detection	TM-158310	\$1,941.00	<b>\$1,699.00</b>
VACUSAFE <i>comfort</i> compact pump station. Includes VACUBOY, 4L polypropylene bottle and lid with barbed tube fittings	TM-158320	1,470.00	<b>1,299.00</b>
VACUSAFE <i>comfort</i> compact pump station. Includes VACUBOY, 3L glass bottle and lid with quick couplings level detection	TM-158300	2,117.00	<b>1,899.00</b>
VACUBOY hand controller set. Includes stand, rubber adapter for Pasteur pipettes, 1- and 8-channel stainless steel aspiration adapters for 40mm, 1-channel plastic aspiration adapter for disposable tips, and 1- and 8-channel plastic aspiration adapters for disposal tips with ejector	TM-155500	245.00	–
VACUBOY hand controller. Includes stand, adapter for Pasteur pipettes, and 1-channel stainless steel aspiration adapter 40mm	TM-155510	181.00	–
Stand for VACUBOY	TM-155501	98.00	–
Adapter for 8-channel pipette tips with ejector	TM-155520	113.00	–
Adapter for single-channel pipette tip with ejector	TM-155526	23.00	–
<b>NEW</b> Liquid Handling Stand for PIPETBOY and VACUBOY	TM-155065	77.00	–

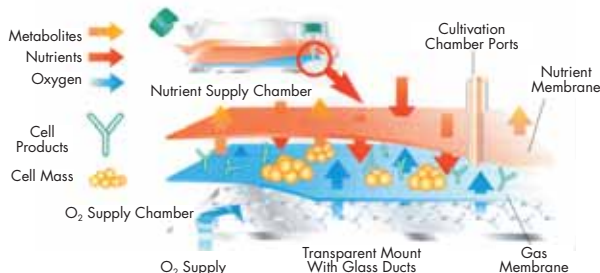
# CELLine & CELLine adhere

Two-compartment bioreactors

CELLine adhere is optimized for the growth of adherent cells such as CHO, HEK or BHK



Advanced cell culture technology for monoclonal antibody production, primary cell culture or stem cell expansion



- 90% less material, 80% less serum
- Increased yield
- Cell densities as high as  $1 \times 10^9$  with 50 – 100X higher mAb concentration
- 10kDa semi-permeable, cellulose membrane separates the media and cell compartments
- Continuous diffusion of nutrients into cell compartment with concurrent removal of waste products

40 YEAR ANNIVERSARY  
SAVE 15%

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
CELLine CL-1000 for suspension cells, 1000mL media volume, 15mL culture volume, 3/pkg.	WWM-90005	\$776.00	<b>\$659.60</b>
CELLine CL-1000 for suspension cells, 1000mL media volume, 15mL culture volume, each	WWM-90005/1	269.00	<b>228.65</b>
CELLine CL-350 for suspension cells, 350mL media volume, 5mL culture volume, 5/pkg.	WWM-90010	1,036.00	<b>880.60</b>
CELLine CL-350 for suspension cells, 350mL media volume, 5mL culture volume, each	WWM-90010/1	214.00	<b>181.90</b>
CELLine adhere AD-1000 with matrix inlay for anchorage-dependent cells, 1000mL media volume, 15mL culture volume, 3/pkg.	WWM-90025	799.00	<b>679.15</b>
CELLine adhere AD-1000 with matrix inlay for anchorage-dependent cells, 1000mL media volume, 15mL culture volume, each	WWM-90025/1	277.00	<b>235.45</b>

## DOSE IT Peristaltic Pump

Dispensing made easy



DOSE IT P910 is a programmable peristaltic pump designed to make the dispensing of culture media, buffers and other solutions easy and efficient.

- Ideal for labs where several different dispensing protocols are frequently used
- Differently sized tubing (from 1 to 8mm) allows the dispensing of a broad range of volumes with a high degree of accuracy
- Twenty different protocols can be saved and recalled by simply pressing a button
- Flow rate: 0.6mL/min. to 5L/min.
- Dose volume: 0.1 mL to 9,999mL

For more information on the DOSE IT pump and accessories, please visit our website at [www.mandel.ca](http://www.mandel.ca)

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
DOSE IT P910 programmable peristaltic pump incl. silicone tubing (4mm inner diameter), dispensing tube, aspiration tubes (10cm and 35cm), tube collar	TM-171000	\$3,395.00	\$2,999.00
Foot Switch	TM-143200	74.00	-
Retort rod for clamp fixing	TM-171085	78.00	-
Extension pump head for double pumphead assembly	TM-171090	736.00	-
Tubing set for double pump head (8mm ID)	TM-171088	114.00	-



## FIREBOY

Safety Bunsen Burner

### Fireboy plus

- Graphical user interface
- 3 modes (foot switch, button or motion sensor)

### Fireboy eco

- 2 modes (foot switch & button)
- Switches off automatically 5 min. after last foot switch activation

### FIREBOY plus operates in three modes:

- Foot switch: flame stays on as long as foot switch is pressed down
- Continuous: regulated by a timer (up to 60 min.)
- Sensor: flame is automatically ignited when hand passes 6 – 8cm in front of sensor window



FIREBOY plus

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
FIREBOY plus, includes power supply, 7.2V battery, and 2 nozzles	TM-144000	\$788.00	\$729.00
FIREBOY eco, includes power supply, foot switch, and 2 nozzles	TM-144010	599.00	559.00
Windshield for even flame	TM-143205	26.00	-
Adapter for connecting new butane gas cartridges	TM-144052	309.00	-
Butane gas cartridge, 220g (adapter TM-144052 required)	TM-CV270	11.00	-
Butane gas cartridge, 450g (adapter TM-144052 required)	TM-CV470	14.00	-
Foot Switch	TM-143200	74.00	-





## Standard Tissue Culture Flasks



**40 YEAR ANNIVERSARY**  
**Buy 3 get 1 FREE = Save 25% off 4! Mix and match any TPP products!**



Two available caps – filtered screw cap with a 0.2µm hydrophobic filter OR vented snap cap that locks at 90°.

DESCRIPTION	CAP	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
25cm <sup>2</sup>	Vented	360	TPP-90025	\$309.00	<b>\$231.75</b>
75cm <sup>2</sup>	Vented	100	TPP-90075	169.00	<b>126.75</b>
150cm <sup>2</sup>	Vented	36	TPP-90150	133.00	<b>99.75</b>
25cm <sup>2</sup>	Filtered	360	TPP-90026	339.00	<b>254.25</b>
75cm <sup>2</sup>	Filtered	100	TPP-90076	184.00	<b>138.00</b>
150cm <sup>2</sup>	Filtered	36	TPP-90151	144.00	<b>108.00</b>
300cm <sup>2</sup>	Filtered	18	TPP-90301	153.00	<b>114.75</b>

## Tissue Culture Flasks with Re-Closeable Covers

- Two sizes available – 150cm<sup>2</sup> growth surface and a square culture surface of 115cm<sup>2</sup> with a security barrier (15mm height)
- Filtered screw cap with 0.2µm hydrophobic membrane

DESCRIPTION	VOLUME	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
150cm <sup>2</sup>	200mL	18	TPP-90552	\$218.00	<b>\$163.50</b>
115cm <sup>2</sup>	200mL	18	TPP-90652	218.00	<b>163.50</b>

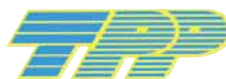
## Tissue Culture Flasks with Peel-Off Covers

- Easy access to cells with unique peel-off cover
- Filtered screw cap with 0.2µm hydrophobic membrane
- Two sizes available – 150cm<sup>2</sup> growth surface and a square culture surface of 115cm<sup>2</sup> with a security barrier (15mm height)



DESCRIPTION	VOLUME	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
150cm <sup>2</sup>	200mL	18	TPP-90551	\$180.00	<b>\$135.00</b>
115cm <sup>2</sup>	200mL	18	TPP-90651	180.00	<b>135.00</b>

## Tissue Culture Dishes



- Serrated grip edge promotes easy pick-up (no more dropped dishes!)
- Numeric scale (12, 3, 6 and 9) divides dish into quadrants for easy orientation



DIAMETER x HEIGHT (mm)	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
40 x 10	900	TPP-93040	\$284.00	<b>\$213.00</b>
60 x 15	840	TPP-93060	284.00	<b>213.00</b>
100 x 20	240	TPP-93100	147.00	<b>110.25</b>
150 x 20	100	TPP-93150	178.00	<b>133.50</b>

## Tissue Culture Plates

Easy to stack and transport



- 96-well plates, now with barcodes and bigger wells (340µL!)
- Individual well rings in lid prevent cross-contamination

NO. OF WELLS	WELL SHAPE	WELL DIAM. (mm)	VOL. (mL)	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
6	Flat	34.5	15.53	126 ind.wrapped	TPP-92006	\$276.00	<b>\$207.00</b>
6	Flat	34.5	15.53	64 (16 x 4/bag)	TPP-92406	133.00	<b>99.75</b>
12	Flat	22.2	6.3	126 ind.wrapped	TPP-92012	277.00	<b>207.75</b>
12	Flat	22.2	6.3	64 (16 x 4/bag)	TPP-92412	133.00	<b>99.75</b>
24	Flat	16.2	3.29	126 ind.wrapped	TPP-92024	277.00	<b>207.75</b>
24	Flat	16.2	3.29	64 (16 x 4/bag)	TPP-92424	133.00	<b>99.75</b>
96	Flat	6.7	0.34	162 ind.wrapped	TPP-92096	345.00	<b>258.75</b>
96	Flat	6.7	0.34	96 (16 x 6/bag)	TPP-92696	186.00	<b>139.50</b>
96	Round	6.7	0.31	162 ind.wrapped	TPP-92097	345.00	<b>258.75</b>
96	Round	6.7	0.31	96 (16 x 6/bag)	TPP-92697	188.00	<b>141.00</b>

## Cell Scrapers and Spatulas for Flasks

Convenient for scraping off and collecting cells

- Pivoting head of the cell scraper allows for easy manoeuvring
- Each blade is made of soft-grade polyethylene, allowing neat collection without damage to cells
- Cell spatula is made of polypropylene



Cell Scraper



Cell Spatula

DESCRIPTION	TOTAL LENGTH	BLADE LENGTH	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
Cell Scrapers	24cm	12mm	150	TPP-99002	\$262.00	<b>\$196.50</b>
Cell Scrapers	30cm	20mm	150	TPP-99003	301.00	<b>225.75</b>
Cell Scrapers	38cm	25mm	100	TPP-99004	248.00	<b>186.00</b>
Cell Spatulas	19.5cm	-	150	TPP-99010	233.00	<b>174.75</b>

## PCV Biomass Cell Counters

"The Disposable Hemacytometers"

What is PCV?

Measuring PCV (packed cell volume) is a rapid method to quantify cells centrifugally in small samples. The percentage PCV value linearly correlates with cell density.



- 99.99% accuracy!
- Sample volume is 1mL or less
- Capillary is calibrated in  $\mu$ L
- Fits any standard microcentrifuge
- No dilutions necessary!



DESCRIPTION	CAT. NO.	QTY.	PRICE	BUY 4 OR MORE
PCV Biomass Cell Counters	TPP-87001	50/case	\$243.00	<b>\$182.25</b>



## Serological Pipettes

- Reverse graduation from 5mL to 25mL pipette
- Sterile
- Certified non-pyrogenic

Shorter Pipette Length  
allows for easier handling in confined spaces

2mL	5mL	10mL	25mL
<b>5% shorter</b>	<b>15% shorter</b>	<b>20% shorter</b>	<b>20% shorter</b>

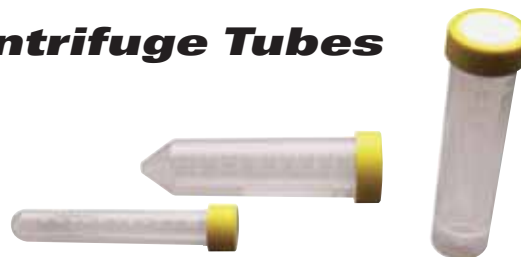


VOLUME	VOLUME INCREMENTS (mL)	QTY./CASE	CAT. NO.	PRICE	BUY 4 OR MORE
1mL	1/100	400	TPP-94001	\$93.00	<b>\$69.75</b>
2mL	1/100	300	TPP-94002	77.00	<b>57.75</b>
5mL	1/10	200	TPP-94005	86.00	<b>64.50</b>
10mL	1/10	200	TPP-94010	91.00	<b>68.25</b>
25mL	2/10	100	TPP-94024	86.00	<b>64.50</b>
25/40mL*	2/10	60	TPP-94525	71.00	<b>53.25</b>

\* Pipette has an additional 15mL reservoir to add volume without adding significant length

## Premium Sterile 50mL & 15mL Centrifuge Tubes

- Sterile
- Gas-tight screw cap cannot be over-tightened
- 9,400xg (polypropylene)
- 1,700xg (polystyrene)
- -196°C to +121°C (polypropylene)



VOLUME (mL)	DESIGN	MATERIAL	CASE QTY. (BULK BAGS)	CAT. NO.	PRICE	BUY 4 OR MORE
50	Conical	PP	360	TPP-91050	\$136.00	<b>\$102.00</b>
50	Conical (self-standing)	PP	320	TPP-91051	140.00	<b>105.00</b>
15	Conical	PP	800	TPP-91015	266.00	<b>199.50</b>
15	Conical	PS	800	TPP-91115	322.00	<b>241.50</b>
-	Sterile Rack		4/pkg.	TPP-99017	22.00	<b>16.50</b>

**40 YEAR ANNIVERSARY**  
Buy 3 get 1 FREE -  
Save 25% off 4.  
Mix and match  
any TPP products!



## Heraeus® HERAcell® i Series CO<sub>2</sub> Incubators

Surround your valuable cultures with an environment you can trust

HERAcell i series CO<sub>2</sub> incubators provide the ideal *in vitro* environment: clean, reliable and easy to use, protecting your valuable samples while optimizing cell growth.

- NEW: iCAN (Interactive Control Access Navigator) Touchscreen simplifies operation and enables rapid access of important information for each critical parameter in the incubator
- ContraCon 90°C moist heat decontamination technology is proven for simple and worry-free cleaning and operation
- Direct humidification offers the fastest humidity recovery times and provides optimal growth conditions for cultures
- Auto-zero self-calibration for long-term stability and more constant pH
- Water-level alarm, 1 – 2 days before the water reservoir runs dry

### Optional

- Tri-gas O<sub>2</sub> control for hypoxic or hyperoxic applications
- IR CO<sub>2</sub> sensor
- Optional integrated gas guard provides protection from gas supply loss (available on HERAcell 150i only)
- Roller bottle system (available on HERAcell 240i only)
- HERAtray shelves for convenient transportation of cultures



HERAcell® 240i



### Specifications

Total volume	150 or 240L
Decontamination	90°C/9h
Temp. range	ambient +3°C to 55°C
CO <sub>2</sub> range	0 – 20%
Humidity	≥95% rH

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
HERAcell 240i, stainless steel inner casing, 240L	SVH-51026331	\$12,665.00	<b>\$10,765.25</b>
HERAcell 150i, stainless steel inner casing, 150L	SVH-51026282	8,241.00	<b>7,004.85</b>
Twin chamber HERAcell stainless steel inner, 150L each	SVH-50116048	13,959.00	<b>11,865.15</b>

To configure your HERACELL 150i or 240i according to your needs, please contact Technical Support at 1-888-883-3636 or email [technicalsupport@mandel.ca](mailto:technicalsupport@mandel.ca).

## Labnet 311D and 611D Incubators



- SmartChek™ system guarantees precise temperature control
- Broad temperature range, to 95°C
- Switchable turbo fan
- Solid outer door with inner viewing door and interior light
- Supplied with two shelves
- Interior outlet for powering small accessory equipment
- Ideal for hybridization and general use
- Chamber volume: 311D: 2.75cu.ft.; 611D: 6.0cu.ft.

### Specifications

	311D	611D
Chamber volume	2.75 cu. ft.	6.0 cu. ft.
Exterior dimensions (W x D x H)	68.6 x 51 x 73.7cm	78.7 x 66 x 86.4cm
Weight	63.6kg	84kg
Temperature range	Ambient +5° to 95°C	Ambient +5° to 95°C
Temperature accuracy	±0.2°C	±0.2°C
Temperature display	to 0.1°C	to 0.1°C

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Model 611D digital incubator with 2 shelves, 120V	NL-I-5611-D	\$3,981.00	<b>\$3,379.00</b>
Model 311D digital incubator with 2 shelves, 120V	NL-I-5311-D	3,425.00	<b>2,899.00</b>
Additional shelf for 611D incubator	NL-I-5619	230.00	–
Additional shelf for 311D incubator	NL-I-5319	184.00	–
Non-toxic, Teflon®-coated thermometer for -20° to 110°C, with 1°C resolution, 305mm long, 76mm immersion	NL-W-0020-110C	43.00	–



## Labnet 311DS Shaking Incubator

High performance incubator with built-in orbital shaker



**Ideal for:**

- Bacteria cultures
  - Yeast cultures
  - Entomology studies
  - Egg hatching
  - Hybridization washes
  - Mixing and resuspensions
- Temperature range ambient +5°C to 80°C
  - Built-in shaker with multiple platform options
  - Shaker orbit/speed: 19mm/20 to 300rpm
  - Flask capacity: 4 x 2L, 6 x 1L, 8 x 500mL, 12 x 250mL, 20 x 125mL, 30 x 50mL
  - Timer: 0 – 99 minutes or continuous
  - Chamber volume: 2.5cu. ft.



## Mini Incubator



- Ideal for microbiology or hematology applications
- Can accommodate 48 Petri dishes or 28 standard 96-well plates
- Wrap around heating elements provide even heating
- Includes port for powering small shaking equipment
- Three shelf positions (one shelf supplied with unit)

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Digital incubator with shaker and 2 shelves, Model 311DS, 120V (platform not included)	NL-5311-DS	\$7,058.00	<b>\$5,999.30</b>
Platform pre-drilled for flask clamps for 311DS	NL-5330	599.00	–
Additional shelf for 311DS incubator	NL-5322	274.00	–
Flat shaker platform with nonslip rubber mat	NL-5331	513.00	–
Clamp for 25mL Erlenmeyer flask	NL-S-2040-25	52.00	–
Clamp for 50mL Erlenmeyer flask	NL-S-2040-50	66.00	–
Clamp for 125mL Erlenmeyer flask	NL-S-2040-85	62.00	–
Clamp for 250mL Erlenmeyer flask	NL-S-2040-99	66.00	–
Clamp for 500mL Erlenmeyer flask	NL-S-2040-09	75.00	–
Mini incubator with one shelf	NL-5110	533.00	<b>453.05</b>
Additional shelf for mini incubator (22 x 18cm)	NL-5110-shelf	50.00	–

## Low-Temperature Incubators



- Forced-air convection for excellent uniformity and minimal water evaporation within the chamber
- Wide temperature range: 0°C to 60°C (±0.1°C at 20°C)
- 9 steps of programmable temperature profiles – up to 200 cycles
- Digital timer: 1 min. to 99hr. 59min., delayed ON/OFF
- Inner glass door and outer door with magnetic packing
- Free LabTracer software
- **2 Year Warranty On Parts & Labour**



150L (5.3 cu.ft.)



## Plant Growth Chambers

- 5°C to 50°C (lamp off)/ 10°C to 50°C (lamp on)
- Max. to 35,000Lux for GC-1000TLH, 20,000Lux for GC-300 series
- 50 to 90% RH (only for TLH models)
- Optional 300 to 5,000ppm CO<sub>2</sub> control
- Digital timer: 1 min. to 99hr. 59min.
- 10 steps of temperature, humidity, and illumination profiles programmable and repeat up to 999 cycles (self-testing)
- **2 Year Warranty On Parts & Labour**



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
IL-11 150L Low-temperature incubator, 120V	JTH-AAH22046U	\$5,153.00	<b>\$4,379.00</b>
IL-21 244L Low-temperature incubator, 120V	JTH-AAH22056U	7,303.00	<b>6,199.00</b>
GC-300TL Plant Growth Chamber (300L), 230V, 60 Hz	JTH-AAHA1011	15,962.00	<b>13,559.00</b>
GC-300TLH Plant Growth Chamber (300L), 230V, 60 Hz	JTH-AAHA1021	20,761.00	<b>17,639.00</b>
GC-1000TLH Plant Growth Chamber (1000L), 230V, 60 Hz	JTH-AAHA1031	32,972.00	<b>27,999.00</b>

## NucleoCounter Cell Counter

- Easy operation
- 30 second analysis time
- Excellent reproducibility
- Calibration free
- Portable/compact
- Safe sample handling and disposal



The NucleoCounter offers ease of use and reliability for the determination of total cell concentration and cell viability in mammalian cells. The compact instrument fits perfectly in any mammalian cell laboratory, whether performing research, quality control or production monitoring.

## Eddy Jet

Fully programmable spiral inoculation instrument with an accuracy and reproducibility rate of more than 99%.



- Plates are processed in under 1 minute
- Use of a patented gamma-irradiated, disposable micro-syringe for each new sample eliminates any cross-contamination
- No time consuming washing cycle
- No preparation and replacement of washing chemical solutions
- No maintenance of a vacuum pumping system and no down time due to vacuum failure

## Masticator



- Compact size, economical cost, extremely easy operation
- Can be used for solid and semisolid sample
- Bar code reader available – reads labels prior to start
- Choice of digital or analogue timer and viewing window option
- Uses metal springs to move the paddles – not a belt
- Rugged & reliable with 3 year manufacturers warranty

## Flash & Grow Automated Colony Counter

- Detect and count colonies of approx.  $\frac{1}{450}$  inch (0.07mm)
- Designed to offer full compliance with FDA 21 CFR Part 11
- Patented illumination enables processing of any media type including transparent/opaque agar
- Counts Pour, Spread and Spiral plates, Filters & 3M Petrifilm
- Add or eliminate colonies with one click on the screen



## MediaClave Media Sterilizer

The MEDIACLAVE product range allows the rapid and gentle sterilisation of 1 – 30L culture medium. Precise controlling and monitoring of temperature, time and pressure during the sterilisation process guarantee constant high quality. The intuitive graphical user interface and the simple programming make it very easy for everyone to operate the MEDIACLAVE.



## MediaJet Automated Petri Dish Filler

Plug'n'Plate – 540 agar plates at the touch of a button.

- Highest capacity in minimal space
- Easy graphical user interface
- Reliable walk-away automation
- Eliminates sources of contamination
- Agar Spread Function minimizes agar level in the Petri dish and thereby allows a significant reduction in media costs
- Process documentation and validation



**For more information on these products, please check online at [www.mandel.ca/PG9-3.htm](http://www.mandel.ca/PG9-3.htm)**