



# PowerVac™

Catalog No.	Quantity	Description
11991	1 unit	PowerVac™ Manifold
11992	1 unit + 20 adapters	PowerVac™ Mini System
11992-10	10 adapters	PowerVac™ Mini Spin Filter Adapters
11992-20	20 adapters	PowerVac™ Mini Spin Filter Adapters

## *Instruction Manual*

**F** Please recycle

Version: 11112009

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## Introduction

The PowerVac™ Manifold, when used in conjunction with PowerVac™ Spin Filter Adapters, is the ideal system for rapid, effective nucleic acid purification using the PowerWater®, PowerFood®, PowerSoil®, UltraClean® Soil, and UltraClean® Microbial DNA Isolation Kits. Reliable, sturdy and easy to use, the PowerVac™ Manifold will process from 1 to 20 samples simultaneously. Because each manifold comes complete with a set of 20 individually controlled One-Way Luer-Lok® Stopcocks, as many or as few samples as desired can be processed at one time. The One-Way Luer-Lok® Stopcocks accommodate our PowerVac™ Spin Filter Adapters for processing the MO BIO flat bottom Spin Filter column.

Laboratory vacuum use can present a safety hazard. Please read and carefully follow the operating instructions and cautionary notes in this manual before using the PowerVac™ Manifold.

**This Vacuum Manifold is for research purposes only. Not for diagnostic use.**

Other Related Products	Catalog No.	Quantity
Vacuum Pump	11998	1 unit
PowerVac™ Mini Spin Filter Adapters	11992-10	10 adapters
	11992-20	20 adapters
Spin Filters	1200-250-SF	250 spin filters

**Product Components:**

**PowerVac™ Manifold**

Catalog# 11991

<b>Includes</b>	<b>Quantity</b>
PowerVac™ Manifold, 20 sample capacity	1
One-Way Luer-Lok® Stopcocks	20
Neoprene Stopper	1
Spinlock II Adapters	6

**PowerVac™ Mini System**

Catalog# 11992

<b>Includes</b>	<b>Quantity</b>
PowerVac™ Manifold, 20 sample capacity	1
One-Way Luer-Lok® Stopcocks	20
Neoprene Stopper	1
Spinlock II Adapters	6
PowerVac™ Mini Spin Filter Adapters	20

**PowerVac™ Mini Spin Filter Adapters**

<b>Catalog#</b>	<b>Includes</b>	<b>Quantity</b>
11992-10	PowerVac™ Mini Spin Filter Adapters	10
11992-20	PowerVac™ Mini Spin Filter Adapters	20



The PowerVac™ Manifold is manufactured from linear, low-density polyethylene (LLDPE). The vacuum hose connector and One-Way Luer-Lok® Stopcocks are made from polypropylene. The stopper is a standard laboratory neoprene stopper. The PowerVac™ Spin Filter Adapters are manufactured from aluminum and are reusable.

LLDPE demonstrates good to excellent resistance to alcohols and to acidic and alkaline conditions. Polypropylene demonstrates good to excellent resistance to alcohols and to acidic and alkaline conditions below 80°C. The PowerVac™ Spin Filter Adapters demonstrate good to excellent resistance to alcohols and to acidic and alkaline conditions.



## Setup and Operation of the PowerVac™ Manifold

The PowerVac™ Manifold is designed for use with multiple vacuum sources. It can be used with the MO BIO Vacuum Pump (cat# 11998) or a water aspirator vacuum source. The manifold is not designed to be used under a high-pressure vacuum (see label supplied).

<b>Comparison of Inches of Hg to Other Pressure Measurements.</b>	
1 Inch Hg	15 Inches Hg
3.386kPa	50.8kPa
25.4Torr	381Torr
0.0334atm	0.501atm
0.491psi	7.37psi
2.54cm Hg	38.1cm Hg
33.86mbar	508mbar

If you have any questions about the suitability of your vacuum source, please contact your [techservice@mobio.com](mailto:techservice@mobio.com)

Do not substitute chemicals. Always follow safe laboratory practices, including the use of safety glasses and a laboratory coat.



## Initial Setup

1. Inspect the manifold connectors and One-Way Luer-Lok<sup>®</sup> Stopcocks for any evidence of wear or mishandling. Do not use the manifold if significant damage, such as a crack or an abrasion, is apparent.
2. Insert the Neoprene Stopper into the hole located at one end of the manifold. The stopper should fit snugly. The Neoprene Stopper functions as a safety valve in the event of excessive pressure buildup.

Note: Do not restrict the removal of the Neoprene Stopper in any way (e.g., tape, wire, etc.).

3. Attach a One-Way Luer-Lok<sup>®</sup> Stopcock to each of the 20 connectors located on the top of the manifold. Secure each stopcock by turning the stopcock collar about ¼ turn clockwise. Do not force the collar; this may strip the Luer-Lok<sup>®</sup> connector threads on the manifold. Close all the stopcocks by turning each stopcock handle to a horizontal position. Insert one PowerVac<sup>™</sup> Spin Filter Adapter (MO BIO Cat# 11992-10 or 11992-20) into each of the Luer-Lok<sup>®</sup> Stopcock ports on the manifold.

Note: The PowerVac<sup>™</sup> Spin Filter Adapters fit into the port of the Stopcock without force. Pushing the Spin Filter Adapter into the port may cause cracking of the Luer-Lok<sup>®</sup> and loss of vacuum pressure to that port. Take care not to crack the Luer-Lok<sup>®</sup> port.

4. Attach a vacuum hose to the hose connector located at the end of the manifold opposite the rubber stopper hole. Like the stopper, the hose connection can function as a safety valve in the event of inadvertent excessive pressure buildup.

Note: Do not fix the vacuum hose to the manifold with a hose clamp.

5. Connect the vacuum hose to your vacuum source. The PowerVac<sup>™</sup> Manifold is now ready for use.



## **Use with MO BIO Laboratories Nucleic Acid Purification Products**

Before each use, drain the manifold thoroughly (see the PowerVac™ Manifold Cleanup section).

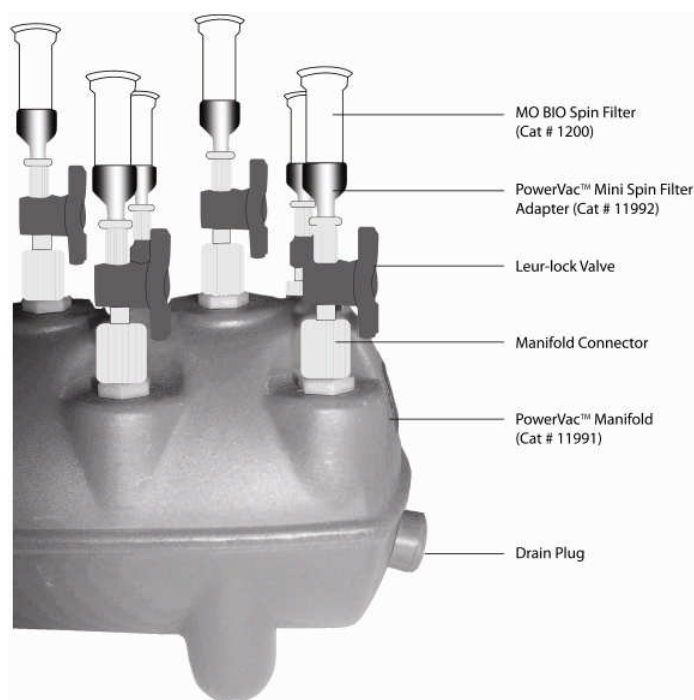
Detailed instructions for use of the PowerVac™ Manifold with MO BIO products are supplied with the individual kits.

Note: Do not use other chemicals or purification systems with the manifold. Use of other chemicals may create a safety hazard. The PowerVac™ Manifold was designed for use with the MO BIO Nucleic acid purification products only. If chemicals other than those supplied or recommended for use with the PowerVac™ Manifold have been accidentally used, make sure that the chemicals are disposed of according to proper procedures.

## PowerVac™ Manifold Cleanup

Inspect for any cracks or significant abrasions. If there is any sign of damage, do not use.

1. With the vacuum off, disconnect the vacuum hose from the manifold. Take the manifold to a lab sink or other appropriate liquid disposal area.
2. Remove the Neoprene Stopper and let the contents of the manifold drain into the appropriate disposal vessel.
3. Replace the Neoprene Stopper and reconnect the manifold to the vacuum hose.



## Cleaning of the PowerVac™ Mini Spin Filter Adapters

It is recommended to rinse the PowerVac™ Mini Spin Filter Adapters promptly after use to avoid salt build up. To clean the PowerVac™ Mini Spin Filter Adapters, rinse each adapter with DI water followed by 70% ethanol and flush into the manifold base. Alternatively, remove the adapters and wash in laboratory detergent and DI water. The aluminum PowerVac™ Mini Spin Filter Adapters may be autoclaved.

**Do not use bleach to clean the PowerVac™ Mini Spin Filter Adapters while attached to the PowerVac™ Manifold. Bleach should never be mixed with solutions containing guanidine and should not be used to clean the PowerVac™ Manifold.**



## Contact Information

### Technical Support:

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### Ordering Information:

Direct: Phone MO BIO Laboratories, Inc. Toll Free 800-606-6246, or 760-929-9911

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For the distributor nearest you, visit our web site at [www.mobio.com/distributors](http://www.mobio.com/distributors)



## Other Quality Products Available from MO BIO Laboratories, Inc.

For more product and detailed information go to [www.mobio.com/catalog-request](http://www.mobio.com/catalog-request) to request a catalog.

DNA Purification and Gel Extraction	Catalog No.	Quantity
PowerClean® DNA Clean-Up Kit	12877-50	50 preps
UltraClean® 15 DNA Purification Kit	12100-300	300 preps
UltraClean® PCR Clean-Up Kit	12500-50 12500-100 12500-250	50 preps 100 preps 250 preps
UltraClean®-htp 96 Well PCR Clean-Up Kit	12596-4 12596-12	4 x 96 preps 12 x 96 preps
UltraClean® GelSpin® DNA Extraction Kit	12400-50 12400-100 12400-250	50 preps 100 preps 250 preps
Plasmid DNA Isolation	Catalog No.	Quantity
UltraClean® 6 Minute Mini Plasmid Prep Kit	12300-50 12300-100 12300-250	50 preps 100 preps 250 preps
UltraClean® Standard Mini Plasmid Prep Kit	12301-50 12301-100 12301-250	50 preps 100 preps 250 preps
UltraClean®-htp 96 Well Plasmid Prep Kit	12396-4 12396-12	4 x 96 preps 12 x 96 preps
UltraClean® Midi Plasmid Prep Kit	12700-20 12700-50	20 preps 50 preps
UltraClean® Maxi Plasmid Prep Kit	12600-10 12600-20	10 preps 20 preps
UltraClean® Endotoxin-Free Mini Plasmid Prep Kit	12311-100 12311-250	100 preps 250 preps
UltraClean® Endotoxin-Free Midi Plasmid Prep Kit	12711-10	10 preps
UltraClean® Endotoxin-Free Maxi Plasmid Prep Kit	12611-10	10 preps
UltraClean® Endotoxin Removal Kit	12615	1 kit
UltraClean® Endotoxin-Free Ethanol Precipitation Kit	12616	1 kit
UltraClean® Endotoxin Removal Reagent	12625-25	25 ml
Endotoxin-Free Sodium Chloride	12626-15	15 ml
Endotoxin-Free Centrifuge Tubes	12617-100 12618-50 12619-25	100 each/2 ml tubes 50 each/15 ml tubes 25 each/50 ml tubes
RNA Isolation	Catalog No.	Quantity
LifeGuard™ Soil Stabilization Solution	<b>12868-100</b> <b>12868-1000</b> <b>12868-7500</b>	<b>100 ml</b> <b>1 L</b> <b>7.5 L</b>
On-Spin Column DNase I Kit (RNase-Free)	15100-50	50 preps
Bi Ostic® Stabilized Blood RNA Isolation Kit	12231-20 12231-50 12231-100	20 preps 50 preps 100 preps
Bi Ostic® Blood Total RNA Isolation Kit	12230-20 12230-50	20 preps 50 preps
RNA PowerSoil® DNA Elution Accessory Kit	12867-25	25 preps
RNA PowerSoil® Total RNA Isolation Kit	12866-25	25 preps
UltraClean® Microbial RNA Isolation Kit	15800-50 15800-250	50 preps 250 preps
UltraClean® Tissue & Cells RNA Isolation Kit	15000-50 15000-250	50 preps 250 preps

RNA Isolation ... Continued	Catalog No.	Quantity
UltraClean® Plant RNA Isolation Kit	13300-20 13300-50	20 preps 50 preps
Genomic DNA Isolation	Catalog No.	Quantity
PowerFood™ Microbial DNA Isolation Kit	21000-50 21000-100	50 preps 100 preps
Bi Ostic® Bacteremia DNA Isolation Kit	12240-50	50 preps
Bi Ostic® FFPE Tissue DNA Isolation Kit	12250-50	50 preps
Bi Ostic® Paraffin Removal Reagent	12251-50	2 x 25 ml
PowerMax® Soil DNA Isolation Kit	12988-10	10 preps
PowerSoil® DNA Isolation Kit	12888-50 12888-100	50 preps 100 preps
PowerSoil®-htp 96 Well Soil DNA Isolation Kit	12955-4 12955-12	4 x 96 preps 12 x 96 preps
UltraClean® Soil DNA Isolation Kit	12800-50 12800-100	50 preps 100 preps
UltraClean®-htp 96 Well Soil DNA Isolation Kit	12896-4 12896-12	4 x 96 preps 12 x 96 preps
UltraClean® Mega Soil DNA Isolation Kit	12900-10	10 preps
PowerClean® DNA Clean-Up Kit	12877-50	50 preps
UltraClean® Fecal DNA Isolation Kit	12811-50 12811-100	50 preps 100 preps
PowerMicrobial® Midi DNA Isolation Kit	12225-25	25 preps
PowerMicrobial® Maxi DNA Isolation Kit	12226-25	25 preps
UltraClean® Microbial DNA Isolation Kit	12224-50 12224-250	50 preps 250 preps
UltraClean®-htp 96 Well Microbial DNA Isolation Kit	10196-4 10196-12	4 x 96 preps 12 x 96 preps
PowerPlant® DNA Isolation Kit	13200-50 13200-100	50 preps 100 preps
UltraClean® Plant DNA Isolation Kit	13000-50 13000-250	50 preps 250 preps
UltraClean®-htp 96 Well Plant DNA Isolation Kit	13096-4 13096-12	4 x 96 preps 12 x 96 preps
UltraClean® Tissue & Cells DNA Isolation Kit	12334-50 12334-250	50 preps 250 preps
UltraClean®-htp 96 Well Tissue DNA Isolation Kit	12996-4 12996-12	4 x 96 preps 12 x 96 preps
UltraClean® Blood DNA Isolation Kit (Non-Spin)	12000-100	100 preps
UltraClean® Blood DNA Isolation Kit (Processes 1,000 ml of Blood)	12000-1000	1 kit
UltraClean® Blood DNA Isolation Kit Plus RNase (Processes 1,000 ml of Blood)	12002-1000	1 kit
UltraClean® BloodSpin® DNA Isolation Kit	12200-50 12200-250	50 preps 250 preps
UltraClean®-htp 96 Well BloodSpin® DNA Isolation Kit	12296-4 12296-12	4 x 96 preps 12 x 96 preps



## Other Quality Products Available from MO BIO Laboratories, Inc.

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Genomic DNA Isolation ...Continued	Catalog No.	Quantity
UltraClean® Forensic DNA Isolation Kit	14000-10 14000-20	10 isolations 20 isolations
PowerWater® DNA Isolation Kit	14900-50-NF 14900-50-22 14900-50-45  14900-100-NF 14900-100-22 14900-100-45	50 preps (No filters) (0.22 µm) (0.45 µm) 100 preps (No filters) (0.22 µm) (0.45 µm)
RapidWater™ DNA Isolation Kit	14810-50-NF 14810-50-22 14810-50-45  14810-100-NF 14810-100-22 14810-100-45	50 preps (No filters) (0.22 µm) (0.45 µm) 100 preps (No filters) (0.22 µm) (0.45 µm)
UltraClean® Water DNA Isolation Kit (0.45µm filters)	14800-10 14800-25	10 preps 25 preps
UltraClean® Water DNA Isolation Kit (0.22 µm filters)	14880-10 14880-25	10 preps 25 preps
UltraClean® Water DNA Isolation Kit (No filters)	14800-10-NF 14800-25-NF	10 preps 25 preps
Microbiological Culture Media	Catalog No.	Quantity
TB DRY® Powder Growth Media	12105-05 12105-1 12105-5	500 g 1 kg 5 kg
LB Broth Powder Growth Media, pH 7	12106-05 12106-1 12106-5	500 g 1 kg 5 kg
LB Agar Powder Growth Media, pH 7	12107-05 12107-1 12107-5	500 g 1 kg 5 kg
LB Broth (Lennox) Powder Growth Media, pH 7	12108-05 12108-1 12108-5	500 g 1 kg 5 kg
LB Agar (Lennox) Powder Growth Media, pH 7	12109-05 12109-1 12109-5	500 g 1 kg 5 kg
Soybean-Casein Digest Medium (TSB), USP	12114-05 12114-1 12114-5	500 g 1 kg 5 kg
Soybean-Casein Digest Agar Medium (TSA), USP	12115-05 12115-1 12115-5	500 g 1 kg 5 kg
Yeast Extract	12110-05 12110-1 12110-5	500 g 1 kg 5 kg
Tryptone	12111-05 12111-1 12111-5	500 g 1 kg 5 kg
Agar, Bacteriological Grade	12112-05 12112-1 12112-5	500 g 1 kg 5 kg
Other Reagents and Lab Accessories	Catalog No.	Quantity
20 bp DNA Ladder	17020-40	40 µg

Other Reagents and Lab Accessories...Continued	Catalog No.	Quantity
100 bp DNA Ladder	17100-40	40 µg
1 kb DNA Ladder	17200-100	100 µg
UltraClean® Agarose, Molecular Biology Grade	15003-50 15003-100 15003-500 15003-1000	50 g 100 g 500 g 1 kg
UltraClean® MS-8 Agarose	15515-50 15515-100 15515-500	50 g 100 g 500 g
UltraClean® Forensic Agarose	15505-50 15505-100 15505-500	50 g 100 g 500 g
UltraClean® Low Melt Agarose	15005-50 15005-100 15005-500	50 g 100 g 500 g
UltraClean® Low Melt Sieve Agarose	15004-50 15004-100 15004-500	50 g 100 g 500 g
Ethidium Bromide Solution	15006-1 15006-10	1 ml 10 ml
Ethidium Bromide Destaining Tea Bags	15007-25	25 bags
Bromophenol Blue Gel Loading Buffer	15008-1 15008-5	1 ml 5 x 1 ml
Bromophenol Blue/Xylene Cyanol Gel Loading Buffer	15009-1 15009-5	1 ml 5 x 1 ml
TAE Buffer, 50X (Tris-acetate-EDTA)	15001-100 15001-500 15001-1000	100 ml 500 ml 1 liter
TBE Buffer, 10X (Tris-borate-EDTA)	15002-100 15002-500 15002-1000	100 ml 500 ml 1 liter
RNase-Free Gloves	1555-XS 1555-S 1555-M 1555-L	bag of 100 bag of 100 bag of 100 bag of 100
UltraClean® Lab Cleaner	12095-250  12095-500  12095-1000	250 ml squeeze bottle 500 ml spray bottle 1 liter bottle
OmniTaq™ DNA Polymerase Enzyme	1224-250	250 reactions (10 U/µl)
OmniTaq™ DNA Polymerase 2x Master Mix	1226-250	250 reactions (5 x 1.25 ml/tube)
Omni KlenTaq™ DNA Polymerase Enzyme	1225-250	250 reactions (25 U/µl)
Omni KlenTaq™ DNA Polymerase 2x Master Mix	1227-250	250 reactions (5 x 1.25 ml/tube)

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Other Reagents and Lab Accessories... Continued	Catalog No.	Quantity
DNase (RNase-Free)	15600-5 15601-100	5 mg 2500 units
Proteinase K	1223-100 1222-2	100 mg 2 ml (20 mg/ml)
Ribonuclease A (25 mg/ml)	1202-1 1202-5	1 ml 5 ml
PCR Water	17000-1 17000-5 17000-10 17000-11	1 ml 5 x 1 ml 10 x 1 ml 10 ml bottle
Molecular Biology Grade Water	17012-200 17012-5200	200 ml 5 x 200 ml
DEPC Treated Water	17011-200 17011-5200	200 ml 5 x 200 ml
Endotoxin-Free Water	17013-10 17013-50 17013-100 17013-500	10 ml 50 ml 100 ml 500 ml
Instrumentation and Accessories	Catalog No.	Quantity
BagMixer® 400 VW	23112	1 unit
BagFilter® 400 P	23113-500	Box of 500
BagPage® 400	23114-500	Box of 500
Precellys®24 Homogenizer, 120V	13112	1 unit
Ceramic Bead Tubes, 1.4 mm	13113-50	50 bead tubes
Ceramic Bead Tubes, 2.8 mm	13114-50	50 bead tubes
Glass Bead Tubes, 0.5 mm	13116-50	50 bead tubes
Glass Bead Tubes, 0.1 mm	13118-50	50 bead tubes
Metal Bead Tubes, 2.38 mm	13117-50	50 bead tubes
2.0 ml Tough Tubes with Cap	13119-500 13119-1000	500 1000
Carbide Bead Tubes, 0.25 mm	13121-50	50 x 0.5 ml tubes
Garnet Bead Tubes, 0.15 mm	13122-50	50 x 0.5 ml tubes
Garnet Bead Tubes, 0.70 mm	13123-50	50 x 2 ml tubes
Garnet + ¼ Ceramic 15 ml Bead Tubes, 0.70 mm	13134-50	50 tubes
Garnet + ¼ Ceramic 50 ml Bead Tubes, 0.70 mm	13144-10 13144-50 13144-100 13144-500	10 tubes 50 tubes 100 tubes 500 tubes
Glass 15 ml Bead Tubes, 0.1 mm	13135-50	50 tubes

Instrumentation and Accessories... Continued	Catalog No.	Quantity
Glass 50 ml Bead Tubes, 0.1 mm	13145-10 13145-50 13145-100 13145-500	10 tubes 50 tubes 100 tubes 500 tubes
Glass 15 ml Bead Tubes, 1.0 mm	13136-50	50 tubes
Ceramic 15 ml Bead Tubes, 1.4 mm	13137-50	50 tubes
Ceramic 50 ml Bead Tubes, 1.4 mm	13147-10 13147-50	10 tubes 50 tubes
Metal 50 ml Bead Tubes, 2.38 mm	13149-10 13149-50	10 tubes 50 tubes
PowerMix 15 ml Bead Tubes	13138-50	50 tubes
PowerMix 50 ml Bead Tubes	13148-10 13148-50	10 tubes 50 tubes
2 ml Collection Tubes	1200-100-T 1200-150-T 1200-250-T	100 tubes 150 tubes 250 tubes
2 ml Screw Cap Tubes	12800-200-E	200 tubes & caps
15 ml Collection Tubes	12700-T	25 tubes
50 ml Centrifuge Tubes	12600-T	25 tubes
Spin Filters (in 1.9 ml tubes)	1200-50-SF 1200-100-SF 1200-250-SF	50 filters 100 filters 250 filters
Endotoxin-Free Centrifuge Tubes	12617-100 12618-50 12619-25	100 each/2 ml tubes 50 each/15 ml tubes 25 each/50 ml tubes
15 ml Midi Spin Filters	12700-SF	25 spin filters
Vortex-Genie® 2 Vortex (120V)	13111-V	1 unit
Vortex-Genie® 2 Vortex (220V)	13111-V-220	1 unit
Vortex Adapter, holds 12 (1.5-2.0 ml) tubes	13000-V1	1 unit
Vortex Adapter, holds 6 (5 ml) tubes	13000-V1-5	1 unit
Vortex Adapter, holds 4 (15 ml) tubes	13000-V1-15	1 unit
Vortex Adapter, holds 2 (50 ml) tubes	13000-V1-50	1 unit
Vortex Adapter, holds 24 (1.5-2.0 ml) tubes	13000-V1-24	1 unit
Power Supply w/Timer, (120V)	16023	1 unit
Power Supply w/Timer, (220V)	16023-220	1 unit
Polycarbonate Single-sided Comb	16005 16006 16007 16008	1 mm x 3 well 1 mm x 8 well 1 mm x 10 well 1 mm x 12 well



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Instrumentation and Accessories... <i>Continued</i>	Catalog No.	Quantity
Polycarbonate Dual-sided Comb	16013	1 mm x 8 well/16 well
	16014	1 mm x 10 well/14 well
	16015	2 mm x 8 well/16 well
	16016	2 mm x 10 well/14 well
Teflon Single-sided Comb	16009	1 mm x 3 well
	16010	1 mm x 8 well
	16011	1 mm x 10 well
	16012	1 mm x 12 well
Teflon Dual-sided Comb	16017	1 mm x 8 well/16 well
	16018	1 mm x 10 well/14 well
	16019	2 mm x 8 well/16 well
	16020	2 mm x 10 well/14 well
Mini Horizontal Gel System	16001	1 each
Mini Horizontal Gel Caster, 3 place	16003	1 each
Mini Horizontal Gel Tray	16004	1 each
96 Well Plate Shaker (120V)	11996	1 unit

Instrumentation and Accessories... <i>Continued</i>	Catalog No.	Quantity
96 Well Plate Shaker (220V)	11996-220	1 unit
Plate Adapter Set	11999	1 set
Tube Adapter Set	11995	1 set
Vacuum Pump (120V)	11998	1 unit
Vacuum Pump (220V)	11998-220	1 unit
UltraVac™ Manifold	11997	1 unit

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