

2009 Catalog

Labware



Membrane Solutions LLC provides quality lab products and services for the life science community worldwide.

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MS[®] Centrifuge Tubes

- Available with 2 volume of 15 and 50mL
- Conical bottom and self-standing bottom
- Longer length screw caps with sealing ring prevent any leak and offer one-hand convenience
- Easy-to read black graduations are accurate to $\pm 2\%$, 1mL increments(15mL) or 2.5mL increments(50mL)
- Max.RCF: 9,400 for conical bottom tubes; 6,000 for self-standing tubes
- With a large unerasable frosting white printed writing area provide easy and legible mark
- Both the graduations and writing areas are chloroform-resistant
- Autoclavable at 121°C and freezable to -80°C
- Gamma radiation sterilized

Cat. No.	Volume(ml)	Bottom	Sterile	Qty/pack
LBCFT000150	15	Conical	No	500
LBCFT011150	15	Conical	Yes	500
LBCFT000500	50	Conical	No	500
LBCFT011500	50	Conical	Yes	500
LBCFT100500	50	Self-standing	No	500
LBCFT111500	50	Self-standing	Yes	500



MS[®] Micro-centrifuge Tubes

- Available with 3 volume of 0.6,1.5 and 2.0mL
- Engraved graduation ensure accuracy
- Autoclavable at 121°C and freezable to -80°C
- Gamma radiation sterilized
- Flat and frosted caps surface together with smooth and frosted body surface provide easy and legible mark

Cat. No.	Volume(ml)	Bottom	Sterile	Qty/pack
LBMCT000006	0.6	Conical	No	500
LBMCT000015	1.5	Conical	No	500
LBMCT000020	2.0	Conical	No	500
LBMCT001006	0.6	Conical	Yes	500
LBMCT001015	1.5	Conical	Yes	500
LBMCT001020	2.0	Conical	Yes	500



MS[®] Freezing Vials

- Available with 4 volume of 0.5,1.5,1.8 and 5.0mL
- Screw cap with plug seal for one-handed operation
- Self standing
- Easy-to-read graduations are accuracy to $\pm 2\%$
- Gamma irradiated for sterilization

Cat. No.	Volume(ml)	Bottom	Sterile	Qty/pack
LBFCT001005	0.5	Self-standing	Yes	5000
LBFCT001015	1.5	Self-standing	Yes	5000
LBFCT001018	1.8	Self-standing	Yes	2000
LBFCT001050	5.0	Self-standing	Yes	2000



MS[®] PCR Tubes

- Easy open and close using one brand
- External graduations and frosted writing surface in sample identification
- Certified Dnase/Rnase free
- Autoclavable under normal autoclaving guidelines

Cat. No.	Volume(ml)	Feature	Qty/pack
LBPCT001002	0.2	With cap	1000
LBPCT001005	0.5	With cap	1000

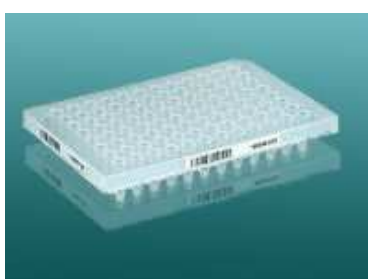


MS[®] Inoculating Loops and Needles

- Made with high quality polypropylene
- Available with 2 inoculating volumes of micro- quantity, 1 and 10 μ L
- Color-coded for easy identification
- Accurate sampling volume design ensure the uniform sample quantity
- Long flexible stem can be sent to come through narrow or small volume tubes and dishes
- Vacuum-gas plasma surface, allowing liquid or solid culture medium to attach



Cat. No.	Volume/Length	Colour	Sterile	Qty/pack
LBDIL010001	1.0 μ L	White	No	2000
LBDIL010010	10.0 μ L	Blue	No	2000
LBDIL011001	1.0 μ L	White	Yes	2000
LBDIL011010	10.0 μ L	Blue	Yes	2000
LBDIL020001	221mm	Yellow	No	2000
LBDIL021001	221mm	Yellow	Yes	2000



MS[®] PCR Plate

- The Plate has a working volume of 0.2mL per well
- These 0.2mL multiwell plates are specifically designed for PCR application
- Certified Rnase/Dnase, and pyrogen free to ensure purity

Cat. No.	No. of Wells	Volume(ml)	Feature	Sterile	Qty/pack
LBPCR000096	96	0.2	Chimney-top	No	100
LBPCR001096	96	0.2	Chimney-top	Yes	100
LBPCR002096	96	0.2	With skirt	No	100
LBPCR020096	96	0.2	With skirt	Yes	100

MS[®] Petri Dish



- Made of molded polystyrene in 35mm,55mm,70mm,90mm
- Designed easily to open with one hand
- Available with or without absorbent pads
- Gamma irradiated for sterilization
- Package in heavy-wall polyethylene sleeves

Cat. No.	Dimension	Feature	Sterile	Qty/pack
LBPD010035	35×10mm	Standard round	Yes	1200
LBPD015055	55×15mm,	Standard round	Yes	1200
LBPD015070	70×15mm	Standard round	Yes	800
LBPD015090	90×15mm	Standard round	Yes	500

MS[®] Serum & Sample Tubes



- Ideal for small volume samples
- Excellent quality PP or GPPS tube body and PE cap
- Available with 6 volume of 0.6, 1.5,2.0,15.0 and 50.0mL
- Screw cap microtubes with plug seal for one-handed operation
- Easy-to-read graduations are accurate to 2%
- With a large inerasable frosting while writhing area provide easy and legible mark
- Leak-proof
- Certified endotoxin-free
- Either gamma irradiation sterilized or non-sterilized



Cat. No.	Volume(ml)	Feature	Sterile	Qty/pack
LBSST000006	0.6	Conical, Graduation	No	1000
LBSST000015	1.5	Conical, Graduation	No	1000
LBSST000020	2.0	Conical, Graduation	No	1000
LBSST000050	5.0	16x 57mm	No	100
LBSST000150	15.0	30x 115mm	No	1000
LBSST000500	50.0	30x 115mm	No	500
LBSST001006	0.6	Conical, Graduation	Yes	1000
LBSST001015	1.5	Conical, Graduation	Yes	10000
LBSST001020	2.0	Conical, Graduation	Yes	10000
LBSST001050	5.0	16x 57mm	Yes	1000
LBSST001150	15.0	30x 115mm	Yes	1000

MS[®] Cell Culture Dish



- Uniform wall thickness ensures distortion-free well bottoms.
- Either surface-treated or non-treated
- Flat bottom Uniform wall thickness ensures distortion-free bottom
- Dish surface is smooth and free from striation to maximize usable area for growth
- Gamma irradiated for sterilization
- Package in heavy-wall polyethylene sleeves

Cat. No.	Diameter	Feature	Sterile	Qty/pack
LBTC0000035	3.5cm	Non Treated	Yes	1200
LBTC0000070	7.0cm	Non Treated	Yes	800
LBTC0000090	9.0cm	Non Treated	Yes	500
LBTC0000150	15.0cm	Non Treated	Yes	200
LBTC0010035	3.5cm	Surface Treated	Yes	1200
LBTC0010070	7.0cm	Surface Treated	Yes	800
LBTC0010090	9.0cm	Surface Treated	Yes	300
LBTC0010150	15.0cm	Surface Treated	Yes	200

MS[®] Cell Culture Flask



- Available either surface treated or non-treated
- Flask surface is flat and free from striation to maximize usable growth area
- Two type of cap, standard or vented
- Innovative angled neck design offer good pipette and cell scraper access in
- Both flank sides have engraved graduation
- Package in heavy-wall polyethylene sleeves



Cat. No.	Volume	Feature	Sterile	Qty/pack
LBTCF001025	25ml	Non Treated	Yes	200
LBTCF002025	25ml	Non Treated	Yes	200
LBTCF001050	50ml	Non Treated	Yes	200
LBTCF002050	50ml	Non Treated	Yes	200
LBTCF001250	250ml	Non Treated	Yes	100
LBTCF002250	250ml	Non Treated	Yes	100
LBTCF001600	600ml	Non Treated	Yes	40
LBTCF002600	600ml	Non Treated	Yes	40
LBTCF011025	25ml	Surface Treated	Yes	200
LBTCF012025	25ml	SurfaceTreated	Yes	200
LBTCF011050	50ml	SurfaceTreated	Yes	200
LBTCF012050	50ml	SurfaceTreated	Yes	200
LBTCF011250	250ml	Surface Treated	Yes	100
LBTCF012250	250ml	Surface Treated	Yes	100
LBTCF011600	600ml	Surface Treated	Yes	40
LBTCF012600	600ml	Surface Treated	Yes	40

MS[®] Cell Culture Plate



- Either surface-treated or non-treated.
- Uniform well volume ensure equal growth surface area
- Well surface is smooth and free from striation to maximize usable growth area
- Raised rims on wells with the uniform rings on the lid to reduce evaporation
- Single position lid reduce the risks of cross-contamination and the misplay of handle

Cat. No.	No. of Wells	Feature	Sterile	Qty/pack
LBTCP000006	6 Wells	Non Treated	Yes	100
LBTCP000012	12 Wells	Non Treated	Yes	100
LBTCP000024	24 Wells	Non Treated	Yes	100
LBTCP000048	48 Wells	Non Treated	Yes	100
LBTCP000096	96 Wells	Non Treated	Yes	100
LBTCP001006	6 Wells	Surface Treated	Yes	100
LBTCP001012	12 Wells	Surface Treated	Yes	100
LBTCP001024	24 Wells	Surface Treated	Yes	100
LBTCP001048	48 Wells	Surface Treated	Yes	100
LBTCP001096	96 Wells	Surface Treated	Yes	100



MS[®] Roller Bottle

- Either surface-treated or non-treated.
- Designed large knurls on the cap for easy grip
- Two type of cap, standard or vented
- Bottle surface is smooth and free from striation to maximize usable area for growth
- Every bottle has silk-printed graduation

Cat. No.	Volume	Feature	Sterile	Qty/pack
LBTCB010150	150ml	Non Treated	Yes	24
LBTCB010250	250ml	Non Treated	Yes	24
LBTCB010500	500ml	Non Treated	Yes	24
LBTCB010002	2000ml	Non Treated	Yes	12
LBTCB000150	150ml	Surface Treated	Yes	24
LBTCB000250	250ml	Surface Treated	Yes	24
LBTCB000500	500ml	Surface Treated	Yes	24
LBTCB000002	2000ml	Surface Treated	Yes	12



MS[®] Serological Pipette

- Color-coded ring for easy identification
- Bidirectional graduations on the pipettes provide added applicability
- Negative graduation allows additional working volume
- Graduations are calibrated for accurate dispensing to within $\pm 2\%$
- Available in sterilized or non-sterilized



Cat. No.	Volume	Color Code	Sterile	Qty/pack
LBGSP001001	1.0ml	Yellow	Yes	800
LBGSP000001	1.0ml	Yellow	No	800
LBGSP001002	2.0ml	Green	Yes	600
LBGSP000002	2.0ml	Green	No	600
LBGSP001005	5.0ml	Blue	Yes	400
LBGSP000005	5.0ml	Blue	No	400
LBGSP001010	10.0ml	Orange	Yes	400
LBGSP000010	10.0ml	Orange	No	400
LBGSP001025	25.0ml	Red	Yes	200
LBGSP000025	25.0ml	Red	No	200

MS[®] Transfer Pipettes

- Available with 3 capacity of 0.2, 1.0, 3.0 and 5.0mL
- Long flexible stem can be bent to draw liquid from narrow or small volume tubes into the bulb
- Uniform drop size
- Non-sterile, or sterile individually packed
- Available in sterilized or non-sterilized



Cat. No.	Volume	Feature	Sterile	Qty/pack
LBPP001002	0.2ml	Graduated	Yes	10000
LBPP000002	0.2ml	Graduated	No	10000
LBPP001010	1.0ml	Graduated	Yes	10000
LBPP000010	1.0ml	Graduated	No	10000
LBPP001030	3.0ml	Graduated	Yes	10000
LBPP000030	3.0ml	Graduated	No	10000
LBPP001050	5.0ml	Graduated	Yes	10000
LBPP000050	5.0ml	Graduated	No	10000

MS[®] Pipette Micro Tips



- Available with 4 transfer volume of 0.1-10, 10-100, 10-200 and 100-1000 μ L
- Color-coded for easy identification
- Manufactured from Specially high quality polypropylene
- Available in gamma irradiation sterilized or non-sterilized

Cat. No.	Volume	Feature	Sterile	Qty/pack
LBPPT001010	0.1~10 μ L	Natural color	Yes	10000
LBPPT000010	0.1~10 μ L	Natural color	No	10000
LBPPT101010	0.1~10 μ L	Natural with filter	Yes	1000
LBPPT100010	0.1~10 μ L	Natural with filter	No	1000
LBPPT001200	10~200 μ L	Yellow	Yes	10000
LBPPT000200	10~200 μ L	Yellow	No	10000
LBPPT101100	10~100 μ L	Natural with filter	Yes	1000
LBPPT100100	10~100 μ L	Natural with filter	No	1000
LBPPT011000	100~1000 μ L	Blue	Yes	10000
LBPPT001000	100~1000 μ L	Blue	No	10000
LBPPT111000	100~1000 μ L	Natural with filter	Yes	1000
LBPPT101000	100~1000 μ L	Natural with filter	No	1000

MS[®] ELISA Plate



- 2 different bottom styles, fixed flat bottom and detachable flat bottom
- 8 or 12 wells strip and 48 or 96 well detachable frames are supplied in order to satisfy different sample quantity and economize cost
- Well surface is uniform, smooth and free from striation to eliminate error
- Wells are labeled with alphanumeric code for easy identification

Cat. No.	No. of Wells	Feature	Sterile	Qty/pack
LBFEP100096	96 Wells	Fixed flat bottom	high	200
LBFEP101296	96 Wells	Detachable	high	200
LBFEP101248	48 Wells	Detachable	high	200
LBFEP200096	96 Wells	fixed flat bottom	Medium	200
LBFEP201296	96 Wells	Detachable	medium	200
LBFEP201248	48 Wells	Detachable	medium	200

MS[®] Deep-well Multiwell Plate



- Manufactured from high-quality virgin polypropylene
- Available with 1.6 and 2.2mL well volumes
- Wells are labeled with alphanumeric code for easy identification
- Can be used with flexible mat covers or to reduce sample evaporation and contamination

Cat. No.	No. of Wells	Feature	Sterile	Qty/pack
LBDMP161096	96 Wells	U type	Yes	50
LBDMP160096	96 Wells	U type	No	50
LBDMP221096	96 Wells	U type	Yes	50
LBDMP220096	96 Wells	U type	No	50

MS[®] Luminescence Test Plate



- Flat bottom
- Designed to reduce well-to-well crosstalk
- Ideal for reducing protein and nucleic acid binding at low concentrations, and increasing assay signal to noise
- Conforms to standard microplate shape and dimensions

Cat. No.	No. of Wells	Feature	Color	Qty/pack
LBLTP010296	96 Wells	12 wells strip, Detachable	White	200
LBLTP010896	96 Wells	8 wells strip, Detachable	White	200
LBLTP010248	48 Wells	12 wells strip, Detachable	White	400
LBLTP021296	96 Wells	8 wells strip, Detachable	Black	200
LBLTP021896	96 Wells	12 wells strip, Detachable	Black	200
LBLTP020248	96 Wells	12 wells strip, Detachable	Black	400

MS[®] Serological Plate

- Available with 2 well types of 48 and 96 wells |
- 2 different bottom styles, fixed flat bottom and detachable flat bottom
- Surface treated to eliminate protein affinity
- Uniform, smooth and striation-free well surface to reduce error

Cat. No.	No. of Wells	Feature	Qty/pack
LBSLP000096	96 Wells	Fixed flat bottom	200
LBSLP012096	96 Wells	Detachable	200
LBSLP012048	48 Wells	Detachable	200

MS[®] Qualitative Filter Paper



- These cellulose filters are used in qualitative analytical techniques to determine and identify materials.
- There are three grades available. Fast, medium and slow.
- Membrane Solutions Offer other customized sizes.

Cat. No.	Filtration	Size(mm)	Qty/pack
SPQL6600F	Fast (16~25um)	600x600	100
SPQL4500F	Fast (16~25um)	450	100
SPQL3200F	Fast (16~25um)	320	100
SPQL2400F	Fast (16~25um)	240	100
SPQL1850F	Fast (16~25um)	185	100
SPQL1800F	Fast (16~25um)	180	100
SPQL1500F	Fast (16~25um)	150	100
SPQL2500F	Fast (16~25um)	125	100
SPQL1000F	Fast (16~25um)	110	100
SPQL0900F	Fast (16~25um)	90	100
SPQL0700F	Fast (16~25um)	70	100
SPQL0550F	Fast (16~25um)	55	500
SPQL0470F	Fast (16~25um)	47	500
SPQL0425F	Fast (16~25um)	42.5	500
SPQL0320F	Fast (16~25um)	32	500
SPQL0300F	Fast (16~25um)	30	500
SPQL0250F	Fast (16~25um)	25	500
SPQL0127F	Fast (16~25um)	12.7	1000
SPQL6600M	Medium(7~12um)	600x600	100
SPQL4500M	Medium(7~12um)	450	100

Cat. No.	Filtration	Size(mm)	Qty/pack
SPQL3200M	Medium(7~12um)	320	100
SPQL2400M	Medium(7~12um)	240	100
SPQL1850M	Medium(7~12um)	185	100
SPQL1800M	Medium(7~12um)	180	100
SPQL1500M	Medium(7~12um)	150	100
SPQL2500M	Medium(7~12um)	125	100
SPQL1000M	Medium(7~12um)	110	100
SPQL0900M	Medium(7~12um)	90	100
SPQL0700M	Medium(7~12um)	70	100
SPQL0550M	Medium(7~12um)	55	500
SPQL0470M	Medium(7~12um)	47	500
SPQL0425M	Medium(7~12um)	42.5	500
SPQL0320M	Medium(7~12um)	32	500
SPQL0300M	Medium(7~12um)	30	500
SPQL0250M	Medium(7~12um)	25	500
SPQL0127M	Medium(7~12um)	12.7	1000
SPQL6600S	Slow(2~4um)	600x600	100
SPQL4500S	Slow(2~4um)	450	100
SPQL3200S	Slow(2~4um)	320	100
SPQL2400S	Slow(2~4um)	240	100
SPQL1850S	Slow(2~4um)	185	100
SPQL1800S	Slow(2~4um)	180	100
SPQL1500S	Slow(2~4um)	150	100
SPQL2500S	Slow(2~4um)	125	100
SPQL1000S	Slow(2~4um)	110	100
SPQL0900S	Slow(2~4um)	90	100
SPQL0700S	Slow(2~4um)	70	100
SPQL0550S	Slow(2~4um)	55	500
SPQL0470S	Slow(2~4um)	47	500
SPQL0425S	Slow(2~4um)	42.5	500
SPQL0320S	Slow(2~4um)	32	500
SPQL0300S	Slow(2~4um)	30	500
SPQL0250S	Slow(2~4um)	25	500
SPQL0127S	Slow(2~4um)	12.7	1000

MS[®] Quantitive Ashless Filter Paper

- High wet strength and good chemical resistance
- Low Ash Grades(<0.009%)
- Membrane Solutions Offer other customized sizes.

Cat. No.	Filtration	Size(mm)	Qty/pack
SPQT6000F	Fast (16~25um)	600	100
SPQT4500F	Fast (16~25um)	450	100
SPQT3200F	Fast (16~25um)	320	100
SFQT2400F	Fast (16~25um)	320	100
SFQT1850F	Fast (16~25um)	185	100
SPQT1800F	Fast (16~25um)	180	100
SPQT1500F	Fast (16~25um)	150	100
SPQT1250F	Fast (16~25um)	125	100
SPQT1100F	Fast (16~25um)	110	100
SPQT0900F	Fast (16~25um)	90	100
SPQT0700F	Fast (16~25um)	70	100
SPQT0550F	Fast (16~25um)	55	500
SPQT0470F	Fast (16~25um)	47	500
SPQT0425F	Fast (16~25um)	42.5	500
SPQT0320F	Fast (16~25um)	32	500
SPQT0300F	Fast (16~25um)	30	500
SPQT0250F	Fast (16~25um)	25	500
SPQT0127F	Fast (16~25um)	12.7	1000
SPQT6000M	Medium(7~12um)	600	100
SPQT4500M	Medium(7~12um)	450	100
SPQT3200M	Medium(7~12um)	320	100
SFQT2400M	Medium(7~12um)	320	100
SFQT1850M	Medium(7~12um)	185	100
SPQT1800M	Medium(7~12um)	180	100
SPQT1500M	Medium(7~12um)	150	100
SPQT1250M	Medium(7~12um)	125	100
SPQT1100M	Medium(7~12um)	110	100
SPQT0900M	Medium(7~12um)	90	100
SPQT0700M	Medium(7~12um)	70	100
SPQT0550M	Medium(7~12um)	55	500
SPQT0470M	Medium(7~12um)	47	500
SPQT0425M	Medium(7~12um)	42.5	500
SPQT0320M	Medium(7~12um)	32	500
SPQT0300M	Medium(7~12um)	32	500
SPQT0250M	Medium(7~12um)	25	500
SPQT0127M	Medium(7~12um)	12.7	1000
SPQT6000S	Slow(2~4um)	600	100
SPQT4500S	Slow(2~4um)	450	100
SPQT3200S	Slow(2~4um)	320	100
SFQT2400S	Slow(2~4um)	320	100

Cat. No.	Filtration	Size(mm)	Qty/pack
SFQT1850S	Slow(2~4um)	185	100
SPQT1800S	Slow(2~4um)	180	100
SPQT1500S	Slow(2~4um)	150	100
SPQT1250S	Slow(2~4um)	125	100
SPQT1100S	Slow(2~4um)	110	100
SPQT0900S	Slow(2~4um)	90	100
SPQT0700S	Slow(2~4um)	70	100
SPQT0550S	Slow(2~4um)	55	500
SPQT0470S	Slow(2~4um)	47	500
SPQT0425S	Slow(2~4um)	42.5	500
SPQT0320S	Slow(2~4um)	32	500
SPQT0300S	Slow(2~4um)	32	500
SPQT0250S	Slow(2~4um)	25	500
SPQT0127S	Slow(2~4um)	12.7	1000

What's New?

MS[®] Co-Culture Ware



- Cell culture including transport studies, toxicity tests
- Chemotaxis studies and electron microscopy

Cat. No.	Membrane	Feature	Pore Size (µm)	Sterile	Qty/ pack
LBCCWPC0604S	Polycarbonate	6 wells of 24mm diameter	0.4	Yes	5
LBCCWPC0630S	Polycarbonate	6 wells of 24mm diameter	3.0	Yes	5
LBCCWPC2404S	Polycarbonate	24 wells of 12mm diameter	0.4	Yes	5
LBCCWPC2430S	Polycarbonate	24 wells of 12mm diameter	3.0	Yes	5
LBCIWPC2404S	Polycarbonate	24mm Insert well	0.4	Yes	30
LBCIWPC2430S	Polycarbonate	24mm Insert well	3.0	Yes	30
LBCIWPC1204S	Polycarbonate	12mm Insert well	0.4	Yes	60
LBCIWPC1230S	Polycarbonate	12mm Insert well	3.0	Yes	60
LBCIWPET2404S	PET	24mm Insert well	0.4	Yes	30
LBCIWPET2430S	PET	24mm Insert well	3.0	Yes	60

MS[®] 96 Well Filter Plate



- Individually sealed wells eliminate sample cross-talk and contamination
- SBS standard footprint is compatible with HTS automation and robotic
- Full 1mL and 0.3mL sample volume with drip tips directors
- More membranes can be available for customizing

Cat. No.	Membrane	Feature	Pore Size(μm)	Volume (ml)	Qty/ pack
LBFPGF030000	Glass Fiber	--	--	0.3	50
LBFPGF100000	Glass Fiber	--	--	1.0	50
LBFPVDF036120	PVDF	Low Binding, Hydrophilic	1.2	0.36	200
LBFPPTFE036045	PTFE	Low Binding, Hydrophilic	0.45	0.36	200
LBFPPC036045	PC	Low Binding	0.45	0.36	200
LBFPPC036120	PC	Low Binding	1.2	0.36	200

MS[®] IVF Culture Dish



- Made of optical polystyrene, TC treated surface
- Flat Bottom, Cut off corner
- Produced and marketed in compliance with the FDA requirements for IVF products
- Packaged in medical paper-plastic bag
- Certified Sterile, Non-pyrogenic, Non-embryotoxic
- Full batch control of all components in the final product for full traceability

Cat. No.	Diameter(mm)	Surface	Treated	Qty/pack
LBIVFD000035	35	Clear	TC	500
LBIVFD000060	60	Clear	TC	500
LBIVFD000100	100	Clear	TC	500

MS[®] Syringes

- Different Sizes, Meet Different Requirements
- Central luer Slip/ Central luer Lock/off-center Luer Slip
- Special Design to Prevent Plunger Slipping Out
- PE/Blister Individual Package
- W/needle,W/o needle
- Custom Needle Size Per Specification



Cat. No.	Volume (ml)	Feature	Qty/pack
Syringe with luer lock			
LBSY02L	2	Luer Lock	2000
LBSY03L	3	Luer Lock	2000
LBSY05L	5	Luer Lock	1500
LBSY10L	10	Luer Lock	1200
LBSY20L	20	Luer Lock	800
LBSY30L	30	Luer Lock	500
LBSY50L	50	Luer Lock	200
Syringe with luer slip			
LBSY01S	1	Luer Slip	3000
LBSY02S	2	Luer Slip	2000
LBSY03S	3	Luer Slip	2000
LBSY05S	5	Luer Slip	1500
LBSY10S	10	Luer Slip	1200
LBSY20S	20	Luer Slip	800
LBSY30S	30	Luer Slip	500
LBSY50S	50	Luer Slip	200

MS[®] C18 SPE Tubes



- C18 SPE is non-polar, hydrophobic sorbent
- Typical applications includes non-polar compounds antibiotics, drugs, fatty acid, pesticides, vitamins and etc.
- Tube format is available in 3 tube sizes

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBC181001	100	1	50
LBC182003	200	3	50
LBC182503	250	3	50
LBC185003	500	3	50
LBC185006	500	6	50
LBC181006	1000	6	50

MS[®] C8 SPE Tubes

- MS[®] C8 SPE is moderately non-polar, hydrophobic sorbent
- Typical applications includes non-polar compounds antibiotics, drugs, fatty acid, pesticides, vitamins and etc.
- Tube format is available in 3 tube sizes

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBC081001	100	1	50
LBC082003	200	3	50
LBC082503	250	3	50
LBC085003	500	3	50
LBC085006	500	6	50
LBC08006	1000	6	50

MS[®] NH₂ SPE Tubes

- MS[®] NH₂ SPE is polar or weak anion exchange sorbent.
- As a polar sorbent, NH₂ is excellent for separation of structural isomers. As weak anion exchanger sorbent, NH₂ is Good for retention of very strong acids.
- Typical applications include lipids, micotoxins.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBNH21001	100	1	50
LBNH22003	200	3	50
LBNH22503	250	3	50
LBNH25003	500	3	50
LBNH25006	500	6	50
LBNH21006	1000	6	50

MS[®] CN SPE Tubes

- MS[®] CN SPE is medium polar sorbent that exhibits both normal phase and reversed phase interactions.
- Typical applications include both polar and nonpolar molecules from aqueous samples, polar molecules from relatively non-polar solvents using the dipole interactions between polar functional groups on the analyte and the cyano group on the sorbent e.g. carbohydrates, cyclosporins.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBCN01001	100	1	50
LBCN02003	200	3	50
LBCN02503	250	3	50
LBCN05003	500	3	50
LBCN05006	500	6	50
LBCN10006	1000	6	50

MS[®] Carbograph SPE Tubes



- MS[®] Carbograph SPE is non-porous graphitized carbon black.
- Typical applications include pigments (chlorophyll, carotenoids), sterols in foods, phenolic compounds in natural products, pesticides in ground water, fruits, and vegetables.
- Tube format is available in 2 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBCB02503	250	3	50
LBCB05006	500	6	50
LBCB10006	1000	6	50

MS[®] AL-A SPE Tubes

- MS[®] AL-A SPE is acidic alumina, extremely polar sorbent and more stable under high pH conditions than silica.
- Typical applications include neutral acids, anionic compounds.
- Tube format is available in 2 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBALA2003	200	3	50
LBALA2503	250	3	50
LBALA5003	500	3	50
LBALA5006	500	6	50
LBALA1006	1000	6	50

MS[®] AL-B SPE Tubes

- MS[®] AL-B SPE is basic alumina, extremely polar sorbent and more stable under high pH conditions than silica.
- Typical applications include neutral amines, cationic compounds.
- Tube format is available in 2 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBALB2003	200	3	50
LBALB2503	250	3	50
LBALB5003	500	3	50
LBALB5006	500	6	50
LBALB1006	1000	6	50

MS[®] AL-N SPE Tubes

- MS[®] AL-N SPE is neutral alumina, extremely polar sorbent and more stable under high pH conditions than silica.
- Typical applications include aliphatic amines, aromatic species, compounds containing N, O, P, S functional group, and from either aqueous or non-aqueous matrix.
- Tube format is available in 2 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBALN2003	200	3	50
LBALN2503	250	3	50
LBALN5003	500	3	50
LBALN5006	500	6	50
LBALN1006	1000	6	50

MS[®] Si SPE Tubes

- MS[®] Si SPE is strongly polar, unfunctionalized silica sorbent.
- Typical applications include aflatoxins, chloramphenicol, pesticides, steroids, vitamins.
- Tube format is available in 2 tube sizes

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBSi002003	200	3	50
LBSi002503	250	3	50
LBSi005003	500	3	50
LBSi005006	500	6	50
LBSi010006	1000	6	50

MS[®] FL SPE Tubes

- MS[®] FL SPE is Florisil, magnesium silicate, extremely polar sorbent for polar compounds in non-polar matrixes.
- Typical applications include pesticides, metal organics, aliphatic carboxylic acids, PCBs and PAHs.
- Tube format is available in 2 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBFL02003	200	3	50
LBFL02503	250	3	50
LBFL05003	500	3	50
LBFL05006	500	6	50
LBFL10006	1000	6	50

MS[®] PSA SPE Tubes



- MS[®] PSA (Primary, Secondary Amine) SPE is dual purpose sorbent that can act both as a weak anion exchanger and polar phase.
- Typical applications include multiresidue pesticides, PAH.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBPSA1001	100	1	50
LBPSA2003	200	3	50
LBPSA2503	250	3	50
LBPSA5003	500	3	50
LBPSA5006	500	6	50
LBPSA1006	1000	6	50

MS[®] SCX SPE Tubes

- MS[®] SCX SPE is strong cation-exchanger that exhibits both strong cation-exchange primary interaction and strong non-polar secondary interaction.
- Typical applications include positively charged basic compounds e.g. amino acids in urine, chlorophyll, PCBs.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBSCX01001	100	1	50
LBSCX02003	200	3	50
LBSCX02503	250	3	50
LBSCX05003	500	3	50
LBSCX05006	500	6	50
LBSCX10006	1000	6	50

MS[®] SAX SPE Tubes

- MS[®] SAX SPE is strong anion-exchanger that offer minimum non-polar secondary interaction.
- Typical applications include positively charged basic compounds e.g. amino acids in urine, chlorophyll, PCBs.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBSAX01001	100	1	50
LBSAX02003	200	3	50
LBSAX02503	250	3	50
LBSAX05003	500	3	50
LBSAX05006	500	6	50
LBSAX10006	1000	6	50

MS[®] CBA SPE Tubes

- MS[®] CBA SPE is medium polar weak cation-exchanger that can exhibits weak cation-exchange primary interaction and polar or non-polar secondary interaction.
- Typical applications include positively charged basic compounds e.g. amino acids in urine, chlorophyll, PCBs.
- Tube format is available in 3 tube sizes.

Cat. No.	Bed Weight(mg)	Tube Size(ml)	Qty/pack
LBCBA01001	100	1	50
LBCBA02003	200	3	50
LBCBA02503	250	3	50
LBCBA05003	500	3	50
LBCBA05006	500	6	50
LBCBA10006	1000	6	50

MS[®] SPE Accessories

- General Adaptors
- Stopcocks

Cat. No.	Product Name	Qty/pack
LBSPEGA01	General Adaptors	20
LBSPECK01	Stopcocks	20

MS[®] Glass Vial

- Screw thread glass vials
- Clear or Amber
- Black polyseal caps

Cat. No.	Volume(ml)	Feature	Qty/pack
LBGV201	2	Clear, Graduated	100
LBGV202	2	Clear, Graduated, with writing area	100
LBGV203	2	Amber, Graduated, with writing area	100