

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/Ranse 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 |

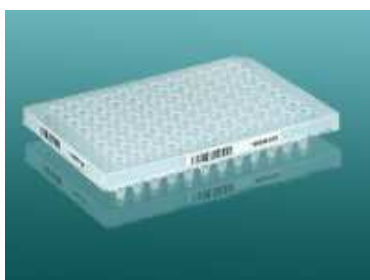


MS[®] Inoculating Loops and Needles

- 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 | Surface Treated | Yes | 200 |
| LBTCF011050 | 50ml | Surface Treated | Yes | 200 |
| LBTCF012050 | 50ml | Surface Treated | 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, carotinoids), 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 |