

## CRYOGENIC VIALS



**CRYOGENIC VIALS** for cryopreservation and transport can be used to safely store valuable samples such as cells, serum, and antibodies.

The cryogenic vials have a silicone packing which is attached to the cap of the vials to ensure high airtightness and prevent drying of samples and liquid leakage.

### FEATURES OF CRYOGENIC VIALS

- Excellent airtightness, leak tested in accordance with IATA (International Air Transport Association) international standards, for air transportation packaging.
- Can be stored for a prolonged period of time at -190 °C.
- Easy loading and unloading of samples prevent contamination of the outer wall of the tube due to dripping.
- Various special racks for easy handling are also available.

### AVAILABLE PRODUCTS

- 2 types of caps: outer cap and inner cap
- 4 capacities inner cap: 1.2 ml, 2 ml, 4 ml, 5 ml
- 4 capacities outer cap: 1 ml, 2 ml, 4 ml, 5 ml
- 5 cap colours: white, red, yellow, blue, green (a 5-colour mix set is also available)

Various special boxes are also available

- MS-7550L, MS-7550G, MS-7550P, MS-75600

Lock Stand: MS-78000

- Locked at its bottom, the tube's cap can be opened and closed with one hand.

### SLIM TUBES

Our original "Slim Tube" is a **centrifuge compatible product**. Using regular tubes you need to transfer samples to a different tube which is centrifuge compatible, this increases the risk of contamination whilst transferring the samples. Since the slim tube is a centrifuge compatible tube, the risk of contamination due to transferring tubes is avoided. Centrifugal operation is possible due to the narrow body diameter. Max Centrifuge force: 19,500 G



## CRYOGENIC VIALS

### PRODUCT TYPE



■ Outer cap type



■ Inner cap type

### PRODUCT SPECIFICATIONS

- Material: polypropylene.
- Sterilization: radiation sterilized.
- Pyrogen & endotoxin Free: endotoxin level less than 0.5 EU/mL (in accordance with the Japanese Pharmacopoeia endotoxin test method).
- Sealing pressure: 95kPa pressure tested (In accordance with IATA PI602/650). Leak test conducted by a third-party organization.
- Liquid nitrogen: storage in gas phase possible.
- Autoclave: yes (121°C, 20 min).
- Cytotoxicity: no toxicity (Intraocular lens approval standard. Cell growth inhibition test. Agar diffusion test).
- Mutagenicity: no inducibility (Standard for mutagenicity test using microorganisms).
- Exothermic substances: compliant (Exothermic substances test).

| Outer cap type | Product code | Product name        | Shape         |                               | Quantity              |
|----------------|--------------|---------------------|---------------|-------------------------------|-----------------------|
|                |              |                     | Bottom        | Size                          |                       |
|                | MS-4601      | Cryogenic vial 1 ml | Self-standing | Outer diameter Ø 12.5 x 43 mm | 500 (50 pcs/bag x 10) |
|                | MS-4603      | Cryogenic vial 2 ml | Self-standing | Outer diameter Ø 12.5 x 46 mm | 500 (50 pcs/bag x 10) |
|                | MS-4604      | Cryogenic vial 4 ml | Self-standing | Outer diameter Ø 12.5 x 71 mm | 300 (30 pcs/bag x 10) |
|                | MS-4605      | Cryogenic vial 5 ml | Self-standing | Outer diameter Ø 12.5 x 87 mm | 300 (30 pcs/bag x 10) |

Cap colour code (W: white, R: red, Y: yellow, B: blue, G: green, X:5 colour set). In ordering, please indicate colours after product code (e.g. MS-4601W, MS-4601R, etc.).

| Inner cap type | Product code | Product name          | Shape         |                               | Quantity              |
|----------------|--------------|-----------------------|---------------|-------------------------------|-----------------------|
|                |              |                       | Bottom        | Size                          |                       |
|                | MS-4501      | Cryogenic vial 1.2 ml | Self-standing | Outer diameter Ø 12.5 x 42 mm | 500 (50 pcs/bag x 10) |
|                | MS-4502      | Cryogenic vial 2 ml   | Round         | Outer diameter Ø 12.5 x 48 mm | 500 (50 pcs/bag x 10) |
|                | MS-4503      | Cryogenic vial 2 ml   | Self-standing | Outer diameter Ø 12.5 x 48 mm | 500 (50 pcs/bag x 10) |
|                | MS-4504      | Cryogenic vial 4 ml   | Round         | Outer diameter Ø 12.5 x 70 mm | 300 (30 pcs/bag x 10) |
|                | MS-4505      | Cryogenic vial 5 ml   | Round         | Outer diameter Ø 12.5 x 90 mm | 300 (30 pcs/bag x 10) |

Cap colour code (W: white, R: red, Y: yellow, B: blue, G: green, X:5 colour set). In ordering, please indicate colours after product code (e.g. MS-4501W, MS-4501R, etc.).

| Slim tube type | Product code | Product name     | Shape         |                               | Quantity              |
|----------------|--------------|------------------|---------------|-------------------------------|-----------------------|
|                |              |                  | Bottom        | Size                          |                       |
|                | MS-4701      | Slim Tube 0.5 ml | Self-standing | Outer diameter Ø 10.5 x 46 mm | 500 (50 pcs/bag x 10) |
|                | MS-4702      | Slim Tube 1.5 ml | Self-standing | Outer diameter Ø 10.5 x 46 mm | 500 (50 pcs/bag x 10) |

| Cryogenic Vials Accessories | Product code                   | Product name  | Product description   | Quantity                |
|-----------------------------|--------------------------------|---|---|-------------------------|
|                             | MS-7550LZ                      | Rack for Cryogenic vials with lid   | Colour: grey  | 10 (10 pcs/box x 1)     |
|                             | MS-7550GZ                      | Rack for Cryogenic vials with lid   | Colour: green   | 10 (10 pcs/box x 1)     |
|                             | MS-7550PZ                      | Rack for Cryogenic vials with lid   | Colour: pink  | 10 (10 pcs/box x 1)     |
|                             | MS-75600Z                      | Rack for Cryogenic vials with lid   | Colour: white   | 10 (10 pcs/box x 1)     |
|                             | MS-99150Z                      | Box for Cryogenic vials LH  | <ul style="list-style-type: none"> <li>LH: L (Large size), H (High) • 146(W) x 146(L) x 76(H) mm,</li> <li>for 4mL &amp; 5mL vials with capacity of 100 vials</li> </ul>  | 20 (20 pcs/box x 1)     |
|                             | MS-99160Z                      | Box for Cryogenic vials LL  | <ul style="list-style-type: none"> <li>LL: L (Large size), L (Low) • 146(w) x 146(L) x 51(H) mm</li> <li>for 1mL &amp; 2mL vials with capacity of 100 vials</li> </ul>  | 20 (20 pcs/box x 1)     |
|                             | MS-99170Z                      | Box for Cryogenic vials M   | <ul style="list-style-type: none"> <li>M: Medium • 133(w) x 133(L) x 51(H) mm</li> <li>for 1mL &amp; 2mL vials with capacity of 81 vials</li> </ul>   | 20 (20 pcs/box x 1)     |
|                             | MS-75200Z                      | Coloured caps for Cryogenic vials   | <ul style="list-style-type: none"> <li>8 colour caps for organized storage of inner cap typed vials</li> <li>Snap-in cap head for easy identification</li> <li>Making it possible to be identified on the surface due to the different colours</li> <li>Cannot be autoclaved</li> </ul> | 1600 (1600 pcs/box x 1) |
| MS-78000Z                   | Lock Stand for Cryogenic vials | Has a locking mechanism which allows one-handed operation to open and close the cap of vials • Autoclavable (121°C, 20 minutes) | 5 (5 pcs/box x 1)   |                         |