

SYMS III®

Unique sealer for CBS™ High Security straws and tubes



For the highest quality cryopreservation of biological samples

Cryo  **Bio System**
Groupe I.M.V. Technologies

www.cryobiosystem.com

SYMS III®



Touch screen



- Interactive
- Intuitive
- Laboratory glove compatible

Specific holders



- CBS™ High Security straw and HSV straw



- CBS™ High Security tube holder

...Easy



Position

Place the specific holder.



Detection

Place the straw or tube on the holder and gently push forward.

CBS™ High Security straws & tubes

Reliability & Security

- Guaranteed leak-proof and shatter-proof container all the way down to LN2 temperatures
- Mechanically resistant to pressures of up to 150 kg/cm²
- Indestructible under normal conditions of use
- Full seals eliminate any possibility of cross-contamination to the specimen or its environment

Traceability

- Colors - Primary identification
 - Outside printing on the straw
 - Tamperproof labeled rod to insert inside the straw
- Bar codes - Positive identification
- A bar code and alphanumerical code inkjet printed on the straw
 - Resistant to liquid nitrogen, abrasive ice crystals and plastic materials
 - Printed jackets and labeled rods cannot be removed until the straw is opened for use

Versatility

Compatibility

- All nitrogen freezers and containers, both liquid and vapor phase
- Ultra low temperature mechanical freezers

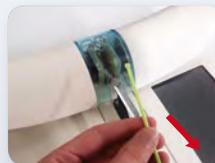


to use ...



Sealing

As soon as the sensor detects the straw or tube in the sealing position the sealing process starts automatically.



Finalization

Seal process complete: Ready for freezing or vitrification.

SYMS III®

designed for:

CBS™ High Security straws and HSV straw



- CBS™ High Security straws: made from a biocompatible ionomeric resin, available in 0.3, 0.5 and 2 mL
- CBS™ Co-XStraw™: similar CBS™ straw with a PETG colored envelope, available in 0.3 and 0.5 mL
- HSV straw: ultra thin CBS™ straw for closed vitrification
- All CBS™ straws are compatible with the CBS™ goblet and visotube storage system

CBS™ High Security tube



- CBS™ High Security tube: a biocompatible ionomeric resin tube, air tight sealed after filling
- Useful volume: 1 mL
- Compatible with common storage racks and boxes

Quality cryopreservation

- All CBS™ containers are developed to **optimize cryopreservation** of precious samples.
- CBS™ High Security straws benefit from a **high surface to volume ratio** for improved and **homogenous heat exchange** over the total volume of the straw.
- Thermal seal of CBS™ straws, HSV straw and CBS™ tube enables **direct and complete immersion** in liquid nitrogen.
- **Color and bar code identification** without impairing the quality of the samples through temperature changes.



Digitool brand

SYMS III® equipment has been designed for use in clean room and under laminar flow to thermally seal all CBS™ High Security products.



A revolutionnary evolution!

- Seals all types of CBS™ High Security straws and tubes
- Automatic detection system
- User-friendly touch screen
- Easy to install, use, clean and maintain
- Compact size allows for use anywhere on the lab bench, under laminar flow or in field operations

SYMS III®



Application fields

- Biorepositories for epidemiological and disease research
- Hospital biobanks
- Cell and genetic therapy units
- Pharmaceutical companies producing vaccines from living cells
- Genetic heritage archives
- Sperm banks
- Laboratories and clinics specialized in reproduction biology



Technical features

- Dimensions: L335 x W250 x H105 mm (L13,2 x W9,8 x H4,1")
- Weight: 3 kg (6,6 lb)
- Pre-set specific combination of seal temperature, time and jaw position for each CBS™ device
- Working temperature range: from 5 to 30°C (from 41 to 86 °F)
- Relative humidity: 80%
- Maximum elevation: 2000 m (6,562 ft)
- Designed for use in indoor laboratories
- P3 laboratory compatible



International standards compliance

- Low voltage N° 73/23 CEE
- CEM 89/336 CEE
- EN 61010-1 / 61326-1 / 61326/A1
- CAN/CSA C22.2 No. 1010.1-92



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