

# CryoPAC Series Freezing Bag

Cryogenic preservation with guaranteed Safety



The CryoPAC Freezing Bags are designed, produced and verified for a single cycle of freezing, cryogenic storage (down to  $-196^{\circ}\text{C}$ ) and thawing (at  $+37^{\circ}\text{C}$ ) of biological products.

Each CryoPAC freezing bag is supplied with an overwrap bag, a set of integrated filling assembly and various of connection ports. The freezing bag main body and its overwrap bag are made of EVA, which has been proved to be durable for long term cryogenic preservation in liquid nitrogen.

Various sizes with different nominal volumes are available: 25ml, 50ml, 250ml, 500ml & 750ml. Recommended filling volume from 5ml to 190ml.

## Sterile

Each CryoPAC freezing bag, including corresponding overwrap bag, is individually packed and sterilized by electron-beam irradiation. The outer packaging can be disinfected for easy clean -room handling. This helps to maintain a sterile workflow from cell collection to storage and subsequent thawing.

## Validation

Extensive validation testing was conducted to guarantee safety of CryoPAC freezing bags, such as: Irradiation sterilization/Physics and Chemistry/Biocompatibility/Extractables/Repeated freezing and thawing/Transportation





## Optimized design

Each CryoPAC freezing bag is supplied with overwrap bag, tubing assembly and various ports for safety and convenient handling.

### 1. Freezing bag main body

Made of EVA material, durable for long-term cryopreservation.

### 2. Overwrap bag

- Provided with each freezing bag for better protection of samples and freezing bag.
- Made of the same EVA material as the freezing bag.
- Space-saving shape enables compatibility with existing freezing cassettes.

### 3. EVA tubing

Extra-long EVA tubing enables sampling for quality control by heat-sealing of sample-filled tubing sections.

### 4. Tubing assembly

- Integrated filling assembly with injection port, two female Luer-Lock connectors, one male Luer-Lock connector, and roller clamps for high flexibility.
- The extra-long PVC tubing, compatible with sterile connecting devices.
- Optimized Y-adaptor with combined quick sampling port.

### 5. Secure spike ports

- Two secure spike ports for removal of the thawed cell product.
- The single-component ports are secured with sealed, twist-off protective caps.
- Internal protection tubes inhibit perforation of the freezing bag during removal of the cell product.

### 6. Label pouch

Label pouch for written sample information and to ensure label integrity throughout the freeze-thaw cycle.

### 7. Hanger hole

Hanger hole on the freezing bag, for convenient handling of the bag.



## Specification

Catalog. No.	Product	Dimension (W x L)	Nonimal Volume	Recommended Fill Volume	Package pcs/carton
5411000	CryoPAC 025B	120 x 100 mm	25 ml	5 ~ 10 ml	24
5412000	CryoPAC 050B	120 x 130 mm	50 ml	10 ~ 20 ml	24
5414000	CryoPAC 250B	120 x 185 mm	250 ml	30 ~ 70 ml	24
5415000	CryoPAC 500B	120 x 235 mm	500 ml	55 ~ 100 ml	24
5416000	CryoPAC 750B	120 x 265 mm	750 ml	80 ~ 190 ml	24