

CONSARCTIC®

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Freezing cassettes ???

Cryobags ???

Cryostorage racks ???



CR freezing cassettes for stem cells in Cryopreservation bags



- **Optimized cell freezing till -196 °C**
 - **Uniform sample thickness**
 - **Ignorable temperature gradients**
 - **Mechanical protection (of frozen bags)**
 - **Compact storage efficiency**
 - **Practical handling**

The CR cassettes are made of aluminium and designed for the cryo preservation and -storage of CryoMACS[®] and other available similar types of cryo bags. They are foreseen with a window for the label pocket of the cryo bag.

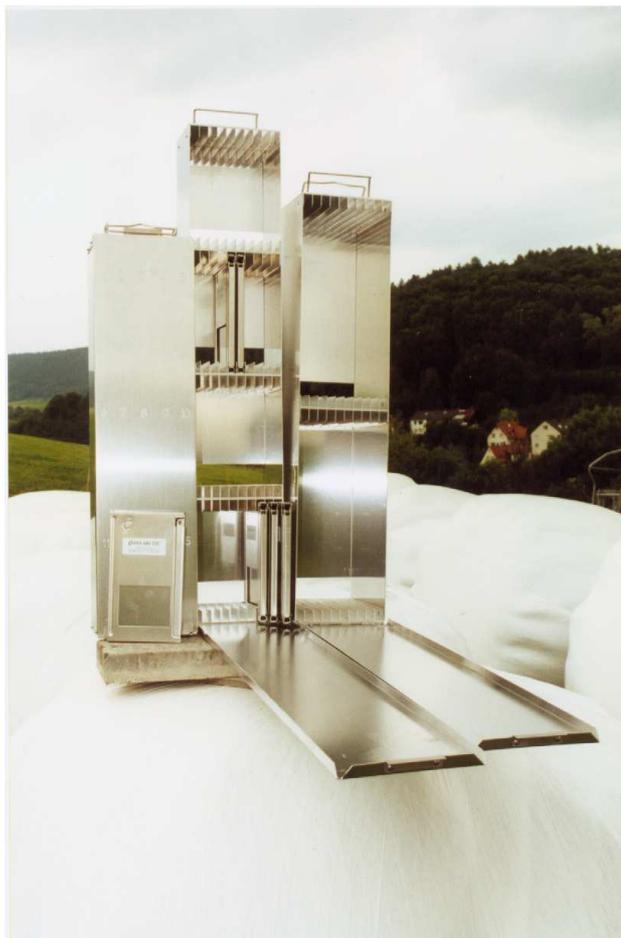
The cassette forces the filled bag inside to a uniform thickness, thus avoiding irregular temperature gradients during freezing.

It warrants optimal survival rates.

The close contact between the bag and aluminium cassette ensures the required quick heat transfer during crystallisation. Moreover an important shortening of the recrystallisation time is realised so cell destructing effects are reduced.

Cassette	Sizes in mm	For bag
CR20S	160 x 100 x 10	CryoMACS50
CR50	205 x 140 x 8	CryoMACS250
CR100F	280 x 140 x 8	CryoMACS250/500
CR100FH	280 x 140 x 8	CryoMACS500/750
CR400/FH	370 x 140 x 14	CryoMACS1000

SNC Cryo storage racks



For the storage and retrieval of the cryo bags the special designed SNC inventory racks offers the optimum solutions for common available biological liquid nitrogen refrigerators. The SNC racks are made of aluminium and foreseen with a cover, fall grip as well as an individual identification number. They fulfil the requirements of easy and secure handling.

Its good thermal conductivity warrants continuously sample temperatures of around -180°C from bottom till top, even if stored in the vapour phase.

So the stored bags are safely surrounded by this cold shield and protected against the heat flow, caused by opening the cover of the refrigerator.

The PR5/50 is a special rack for controlled rate freezing of 5 pieces of 250ml cryobags simultaneously and subsequent storage in a liquid nitrogen refrigerator. Its advantage: they are stackable up to the required levels being accepted inside the refrigerator.

Rack (levels)	SNC100-10/1 (1)	SNC100-10/2 (2)	SNC20-10/3 (3)	SNC20-10/4 (4)	SNC50-10/3 (3)
Sizes	307x155x133 mm	595x155x133 mm	520x102x130 mm	685x102x130 mm	650x155x133 mm
Capacity	10 x CR100	20 x CR100	30 x CR20S	40 x CR20S	30 x CR50

Rack (levels)	PR5/50 (1)	SNC100-5/2 (2)	SNC20-5/3 (3)	SNC20-5/4 (4)	SNC50-5/3 (3)
Sizes	230x155x 70 mm	595x155x70 mm	520x102x70 mm	685x102x70 mm	650x155x70 mm
Capacity	5 x CR50	10 x CR100	15 x CR20S	20 x CR20S	15 x CR50

Accessories for frozen bags

- Protecting thawing bags

Thawing of frozen bags.

When using a waterbath of $+38^{\circ}\text{C}$ the whole frozen bag should be put in a protecting thawing bag first.

This thawing bag is foreseen with a transfer set connection.

It is made from a proprietary mix of polyolefins and being in sterilized condition on delivery

Cryopreservation freezing bags

- Individual sterile packaging
- For use with CR cassettes
- Label pocket
- Two spike ports
- Integrated tubing set



The freezing bags are designed for freezing of human blood components down to -196°C in CONSARCTIC[®] freezing and storage cassettes and its thawing as well. They fulfil the current standard requirements for cryopreservation protocols.

Different applications, different sizes

A broad range of freezing bags with nominal volumes, ranging from 50 to 1000 ml is available and offers flexibility for various applications.



CryoMACS500 with CR100F freezing/storage cassette

Clean room handling has been made easy: the outer packaging can be disinfected.

If prescribed by existing work path an over wrap bag is available, too.



The filled freezing bag fits into the corresponding storage cassette. There is no need to use larger storage cassettes, if overwrap bag is used, too.

Product number	Description freezing bag	Nominal volume	Net volume in CR cassette	Bag REF number	Required CR cassette
200-074-400	CryoMACS [®] Freezing Bag 50	50 ml	10 – 25 ml	3110040001E	CR20S
200-074-401	CryoMACS [®] Freezing Bag 250	250 ml	30 – 50 ml	3110040101E	CR50F or CR100F
200-074-402	CryoMACS [®] Freezing Bag 500	500 ml	55 – 100 ml	3110040201E	CR100F or CR100FH
200-074-403	CryoMACS [®] Freezing Bag 750	750 ml	80 – 120 ml	3110040301E	CR100FH
200-074-404	CryoMACS [®] Freezing Bag 1000	1000 ml	300– 400 ml	3110040401E	CR400F