



Product picture shows exemplary CryoSure® LN2 10

## DESCRIPTION

CryoSure® LN2 offers precise temperature control for cryogenic temperatures as low as below -150°C for up to 35 days by using advanced insulation materials and proven dry shipper technology. With a three-layer system designed to withstand external influences, CryoSure® LN2 ensures the safety and efficacy of cell & gene therapies throughout the transportation and storage process, minimizing the risk of product loss or compromise.

**DIMENSIONS AND WEIGHT**

External Dimensions <sup>1</sup> (l x w x h)		Internal Dimensions		Tolerances	
[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
500 x 480 x 720	19.7 x 18.9 x 28.3	Neck diameter 215 Height 290	Neck diameter 8.5 Height 11.4	± 5	± 0.2

Tare Weight <sup>1</sup>		Payload (Volume)	
[kg]	[lbs]	[L]	
26 ± 1	57.3 ± 2.2	10.5	

<sup>1</sup>including nitrogen and outer packaging

**COOLING CONFIGURATION**

Material	Weight <sup>2</sup>		Tolerances	
	[kg]	[lbs]	[kg]	[lbs]
Liquid Nitrogen	6	13.2	0.6	1.3

<sup>2</sup>nitrogen absorbed by porous material

**HOLDING TIME**

The CryoSure® LN2 10 is tested on ambient temperature scenario for -150 °C shipments. Liquid nitrogen is absorbed by porous material in vapor phase and is used to stabilize temperature inside the CryoSure® LN2 10.

**PERFORMANCE** The CryoSure® LN2 10 is qualified in the temperature range below -150 °C

Temperature scenario	Duration	Kelvin-hours <sup>3</sup>	Average ambient temperature [°C]
ISTA 7D summer (static)	≥ 9 days	≥ 40320	+30
ISTA 7D summer (dynamic)	≥ 15 hrs	≥ 2675	+28.3

<sup>3</sup>Detailed information about the concept of Kelvin-hours on [www.kelvinhours.com](http://www.kelvinhours.com)

For more details, please view the qualification report. Before performing a shipment with the CryoSure® LN2 10 it is suggested that the user performs a validation process with the equipment available and under the conditions available. A test in worst case conditions is recommended. The box provides a very stable and well-designed system solution which has to be adapted on the particular requirements of the user.

For more information please contact [support@envirotainer.com](mailto:support@envirotainer.com).