

PACKING GUIDE FOR TEMPERATURE SENSITIVE SHIPMENTS



DHL









DHL Medical Express offers solutions that fit

TEMPERATURE CONTROLLED | FLEXIBLE | RELIABLE

DHL Medical Express is a specialized service dedicated to meeting the unique challenges faced by the Life Sciences & Healthcare industry.

We have a range of packaging products available to suit the temperature requirements of your shipment.

-  Chilled
-  Controlled
-  Ambient
-  Frozen
-  Combination: Frozen & Ambient
-  Combination: Refrigerated & Ambient

Chilled – Between 2°C and 8°C

Designed to keep the temperature environment between 2°C and 8°C for up to 108 hours

Box sizes: Small, Medium and Large. The preparation of the Pharmacool Cassettes will create a chilled environment which will be held for the desired time

Instruction sheets: Provided to guide through the correct preparation process

Box Size	Item #	Content	External Dimensions	Product Space	Temperature & Duration
Small	16-127	1 x Outer Carton 1 x EPS Insulated Cooler 6 x 1350g Pharmacool Cassettes 1 x Product Carton	47.5 x 44.0 x 37.0cm	25.0 x 21.4 x 13.0 (7 liters)	2°C to 8°C for 85 hours
Medium	16-089	1 x Outer Carton 1 x EPS Insulated Cooler 6 x 2400g Pharmacool Cassettes 1 x Product Carton	56.4 x 51.4 x 43.5cm	34.4 x 26.4 x 15.3 (14 liters)	2°C to 8°C for 108 hours
Large	11-049	1 x Outer Carton 1 x EPS Insulated Cooler 2 x 2000g Pharmacool Cassettes 4 x 3000g Pharmacool Cassettes 1 x Product Carton	63.2 x 53.2 x 50.5cm	38.5 x 28.5 x 25.0 (28 liters)	2°C to 8°C for 96 hours

Controlled – Between 15°C and 25°C

- 📄 Designed to keep the temperature environment between 15°C and 25°C for up to 72 hours
- 📄 Box sizes: Small, Medium and Large. They are supplied with different Pharmacool Cassettes sizes
- 📄 Handling instruction sheets: Provided to guide through the correct preparation process

Box Size	Item #	Content	External Dimensions	Product Space	Temperature & Duration
Small	16-128	1 x Outer Carton 1 x EPS Insulated Cooler 6 x 1350g Pharmacool Cassettes 1 x Product Carton	47.5 x 44.0 x 37.0cm	25.0 x 21.4 x 13.0 (7 liters)	15°C to 25°C for 72 hours
Medium	16-090	1 x Outer Carton 1 x EPS Insulated Cooler 6 x 2400g Pharmacool Cassettes 1 x Product Carton	56.4 x 51.4 x 43.5cm	34.4 x 26.4 x 15.3 (14 liters)	15°C to 25°C for 72 hours
Large	11-050	1 x Outer Carton 1 x EPS Insulated Cooler 2 x 2000g Pharmacool Cassettes 4 x 3000g Pharmacool Cassettes 1 x Product Carton	63.2 x 53.2 x 50.5cm	38.5 x 28.5 x 25.0 (28 liters)	15°C to 25°C for 72 hours

Ambient – Three packaging systems

1. Ambient Non-Insulated

- Designed to keep the temperature environment between 15°C and 25°C for up to 72 hours
- Box sizes: Small, Medium and Large. Supplied with different Pharmacool Cassettes sizes
- Handling instruction sheets: Provided to guide through the correct preparation process

Item #	Content	External Dimensions	Product Space
01-011	1 x Outer Carton 1 x 95ka Bag 1 x Absorbant Sleeve 1 x Bubble Bag	23.5 x 19.4 x 12.1cm	6 x 10ml vials


2. Ambient Insulated – Between 15°C and 25°C

- For shipments of temperature-controlled UN3373 Biological Substances, Category B
- An additional insulated liner offers the ambient temperature shipments more protection against changes in outside temperature

Item #	Content	External Dimensions	Product Space
01-020	1 x Outer Carton 1 x 95ka Bag 1 x Absorbant Sleeve 1 x Air Pillow 1 x Coolant Wraps 1 x Insulated Liner	23.5 x 19.4 x 12.1cm	6 x 10ml vials

Ambient – Three packaging systems

3. Ambient Extreme

 This unique packaging system provides thermal protection from extreme temperature fluctuations that might occur (during transport or because of season or geography)

 Using this packaging, ambient shipments will be kept for 48 hrs above 0°C

Item #	Content	External Dimensions	Product Space
01-022	1 x Outer Carton 1 x 95ka Pressure Bag 1 x Absorbant Sleeve 2 x Coolant Wraps 1 x EPS Box	47.5 x 44.0 x 37.0cm	25.0 x 21.4 x 13.0 (7 liters)

Frozen – Below -20°C



Designed to send contents at below -20 °C



To keep products/samples frozen, Dry Ice is the refrigerant most commonly used. It is available in several shapes and forms (pallets, sticks or places.)*

*By air: Dry Ice is considered a dangerous good. As it sublimates and displaces oxygen, the boxes should never be hermetically sealed. These frozen temperature solutions ensure that air pressure does not build up and ensure an environment below -20° C can be maintained for up to 129 hours.

Box Size	Item #	Content	External Dimensions	Product Space	Temperature & Duration
Small	16-028	1 x Outer Carton 1 x EPS Insulated Cooler	31.0 x 31.0 x 32.0cm	9.5 x 9.5 x 13.5 or 6 x 10ml vials	< -20°C for 124 hours
Medium	16-032	1 x Outer Carton 1 x EPS Insulated Cooler	34.8 x 34.8 x 36.4cm	10.0 x 10.0 x 2.5 or 12 x 10ml vials	< -20°C for 122 hours
Large	16-067	1 x Outer Carton 1 x EPS Insulated Cooler	39.5 x 39.5 x 44.8cm	18.0 x 14.5 x 15.0 or 36 x 10ml vials	< -20°C for 129 hours

Combination Frozen & Ambient





This packaging solution can accommodate the shipping of frozen (below -20°C) and ambient (between 15°C and 25°C) samples within a single box



Item #	Content	External Dimensions	Product Space	Temperature & Duration
01-025	1 x Outer Carton 2 x EPS Cooler 2 x Cooler Wraps	29.5 x 24.4 x 44.2cm	6 x 10ml vials ambient & 6 x 10ml vials frozen	< -20°C for 72 hours (for the frozen element)



Combination Credo Boxes – Refrigerated & Controlled Ambient

-  This pack solution can accommodate the shipping of refrigerated (between 2°C and 8°C) and controlled ambient (between 15°C and 25°C) shipments
-  Box sizes – S, M, L, XL and XXL
-  Re-useable packaging to preserve the environment
-  Possibility to add a temperature tracker and a inner packaging for contaminated samples

Box Size	Content	Product Space	Temperature & Duration
Small	Vacuum insulated system with PCM panels	4 liters	Refrigerated 2°C and 8°C for 84 to 128 hours Ambient 15°C and 25°C for 45 to 114 hours
Medium	Vacuum insulated system with PCM panels	12 liters	Refrigerated 2°C and 8°C for 84 to 128 hours Ambient 15°C and 25°C for 45 to 114 hours
Large	Vacuum insulated system with PCM panels	28 liters	Refrigerated 2°C and 8°C for 84 to 128 hours Ambient 15°C and 25°C for 45 to 114 hours
Extra Large	Vacuum insulated system with PCM panels	56 liters	Refrigerated 2°C and 8°C for 84 to 128 hours Ambient 15°C and 25°C for 45 to 114 hours
Extra Extra Large	Vacuum insulated system with PCM panels	96 liters	Refrigerated 2°C and 8°C for 84 to 128 hours Ambient 15°C and 25°C for 45 to 114 hours