

Thermostable Cell Transporter

Heat Storage Type: 20°C TypeK – Plastic Corrugated Box (with Drawer)

Catalog No. PCT-K20 (Japan)

Catalog No. PMC-PCT-K20 (Outside Japan)

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www.cosmobioussa.com

Please read this instruction manual carefully before use to ensure safe and proper operation.

【 I 】 Product Specifications

- TypeK Insulated Shipping Box (Usable interior dimensions: 190 x 250 x 75mm)
- Heat Storage Pack for 20°C, F-20 (1kg x 1 piece, 480g x 3 pieces)
- Outer Box (External dimensions: 340 x 440 x 330mm)

【 II 】 Preheating and Precooling the Heat Storage Packs

The heat storage material F-20 used in this product must be preheated or precooled in advance. Be sure to preheat and precool for at least two days under the following conditions.

- The average outside temperature during transport is below 20°C: Preheat to 23–30°C and use when the pack is transparent and gel-like.
- The average outside temperature during transport is above 20°C: Precool to 10–17°C (using tap water, etc.) and use when the pack is white and solidified.

Note: Avoid stacking packs too closely, as this may prevent heat from penetrating to the center. Ensure there is sufficient space between packs to facilitate uniform heating or cooling.

【 III 】 Packing Instructions

- (1) Pre-condition (pre-heat or pre-cool) the F-20 thermal packs (one 1kg pack and three 480g packs).
- (2) Remove the retaining plate from the foam transport box and place the 1kg thermal pack at the bottom as shown in Figure 1.
- (3) Reinsert the retaining plate and place one 480g thermal pack along each side wall as shown in Figure 2.
- (4) Place the samples, such as cell culture plates or bags, inside. When shipping flat samples like plates, be sure to place shock-absorbing material (e.g., paper wipes) between the thermal packs and the samples to prevent direct contact (Fig. 3).

Figure 1



Figure 2

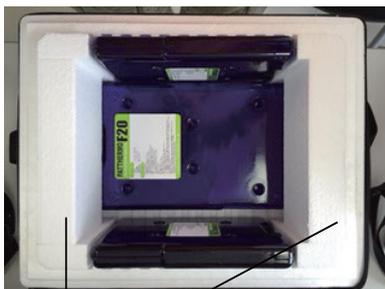


Figure 3



Retaining Plate

Paper Wipes

(5) Place one 480g heat storage pack on top of the sample (see Fig. 4). If any gaps remain, fill them with paper towels, air cushions, gauze, or similar cushioning materials (see Fig. 5). Avoid using excessive cushioning, as this may prevent the lid from sealing properly.

(6) Secure the lid of the outer bag firmly using the Velcro straps and belt (see Fig. 6).

(7) Once sealed, the transport container can be shipped at ambient (room) temperature.

Fig. 4



Fig. 5

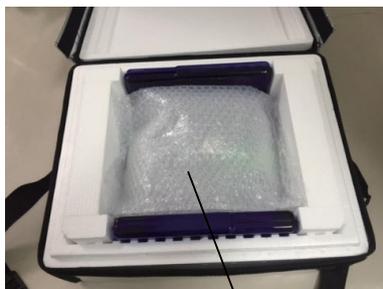
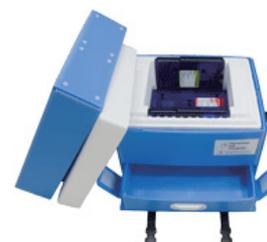


Fig. 6

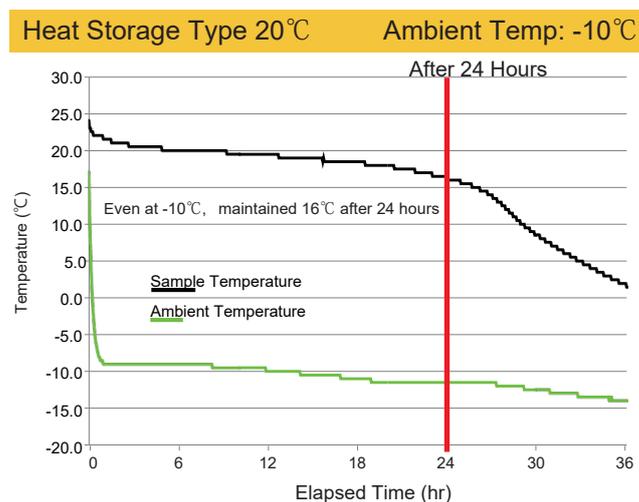
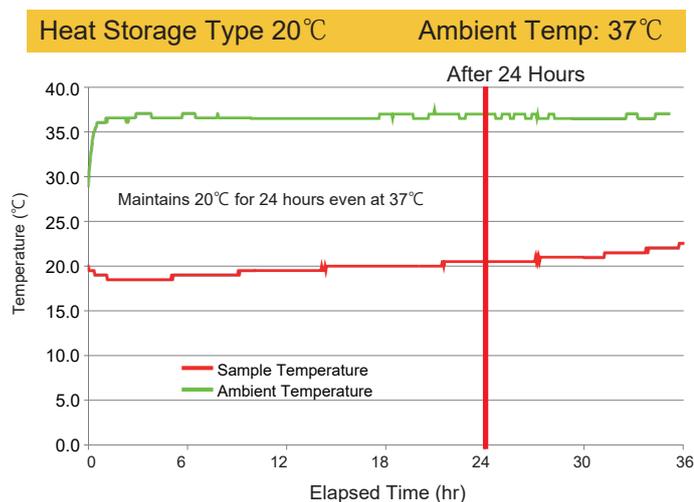


Shock-absorbing Material

【IV】 Other Information

1. The polystyrene transport box and lid are consumables. If the lid's seal deteriorates over time, please replace the entire unit. Contact Cosmo Bio to purchase replacements.
2. During periods of extreme heat or cold, or if the unit is stored in environments that differ significantly from the set temperature (e.g., inside a vehicle), temperature accuracy may be affected. Please monitor ambient temperatures and storage conditions during transport.
3. Battery-powered Thermostable Cell Transporter models are also available in preset temperatures of 5°C, 20°C, and 32°C.

【V】 PCM 20°C Temperature Data Example



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