

# Thermostable Cell Transporter

Heat Storage Type: 5°C TypeK – Plastic Corrugated Box (with Drawer)

Catalog No. PCT-K05 (Japan)

Catalog No. PMC-PCT-K05 (Outside Japan)

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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 5°C, F-5 (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 F-5 thermal packs used in this product require pre-heating or pre-cooling before use. Always pre-condition the packs for at least 2 days under the following conditions:

- The average ambient temperature during transport is 5°C or lower: Pre-heat at 10–20°C. (The pack should be used in a transparent, gel-like state.)
- The average ambient temperature during transport is 5°C or higher: Pre-cool at 0–2°C (e.g., in a chilled refrigerator or ice water). (The pack should be used in a white, solidified state.)

**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-5 thermal packs (one 1 kg pack and three 480 g packs).
- (2) Remove the retaining plate from the foam transport box and place the 1 kg thermal pack at the bottom as shown in Figure 1.
- (3) Reinsert the retaining plate and place one 480 g thermal pack along each side wall as shown in Figure 2.
- (4) Place the samples, such as cell culture plates or culture 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 provide cushioning (see Fig. 3).

Figure 1



Figure 2

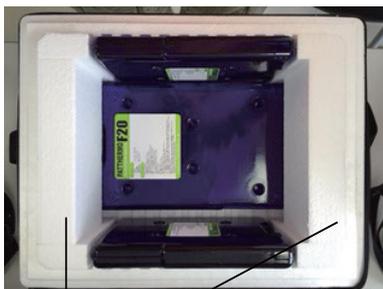


Figure 3



Retaining Plate

Paper Wipes

(5) Place one 480 g thermal pack on top of the sample (see Fig. 4). If any gaps remain, fill them with cushioning materials such as paper wipes, air cushions, or gauze (see Fig. 5). Be careful not to use excessive cushioning, as this may prevent the lid from sealing properly.

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

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

Fig. 4

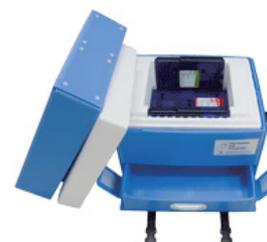


Fig. 5



Shock-absorbing Material

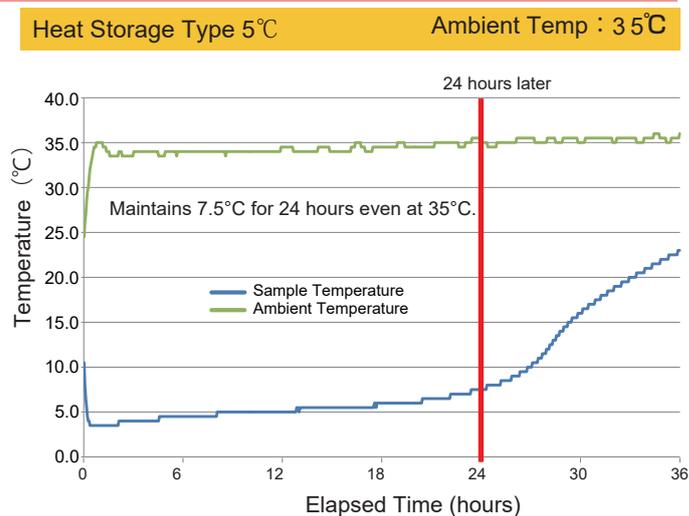
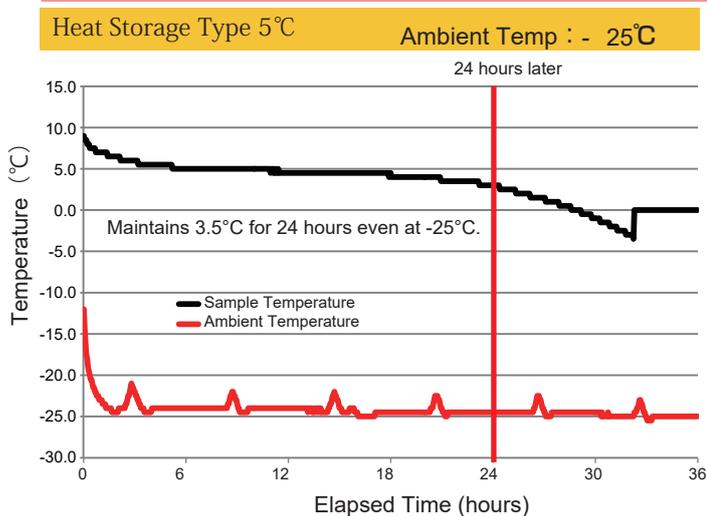
Fig. 6



#### 【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 5°C Temperature Data Example



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【JAPAN】  
TOYO EKIMAE BLDG. 2-20, TOYO 2-  
CHOME, KOTO-KU. TOKYO 135-0016,  
JAPAN Phone: +81-3-5632-9610  
FAX: +81-3-5632-9619  
URL: <https://www.cosmobio.co.jp/>



【Outside Japan】  
2792 Loker Ave West, Suite 101  
Carlsbad, CA 92010, USA  
email: [support@cosmobioussa.com](mailto:support@cosmobioussa.com)  
URL: [www.cosmobioussa.com](http://www.cosmobioussa.com)  
Phone/FAX: (+1) 760-431-4600