

Objective: To develop a set of low temperature medical shipping refrigerated box for storage and shipping for biologicals in field environment. Methods: Semiconductor cooling device (SCD) ...

Studies carried out on insulated boxes and in refrigerated equipment (refrigerated trucks, cold storage facilities, display cabinets and domestic refrigerators) were reported. The ...

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The discharging depth is defined as the ratio of energy released for cooling the interior to the energy stored in the device, can be used as an indicator for the optimization of ...

As aforementioned, phase-change technology holds potential in this scenario due to its advantages in energy storage characteristics, easy operation, simple structure, and low ...

Air circulation is essential in a refrigerated box. Cold air is first directed to the upper part of the load and then to the rear of the load. The system absorbs heat from the air ...

The homogeneity of the temperature in the refrigerated box is essential in order to ensure the quality of the transported product and to reduce its level of health risk [1, 2]. ...

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