

StrataCooler LP Benchtop Cooler

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MATERIALS PROVIDED

StrataCooler LP Benchtop Cooler, Catalog #401349

Materials Provided	Quantity
StrataCooler LP benchtop cooler	1
Tube adapter	16

INTRODUCTION

The StrataCooler benchtop coolers offer the ultimate in enzyme protection and eliminate the need for messy ice baths which jeopardize the long-term stability of your enzymes and the reproducibility of your results.

The StrataCooler LP benchtop cooler offers the highest level of enzyme protection, and is designed for protocols requiring more than 30 minutes at the benchtop and for long-term enzyme storage. The StrataCooler LP cooler protects enzymes from temperature fluctuations due to open freezer doors, frost-free cycles or power outages. Additionally, the StrataCooler LP benchtop cooler maintains enzyme temperatures below -15°C for up to 2 hours at the laboratory bench (see Figure 1).

The StrataCooler LP benchtop is designed for routine use of coolers for short periods of time at the bench. The cooler has 32 wells for 1.5 ml tubes. Tube adapters are provided, allowing the cooler to hold 0.5 ml tubes. Additionally, the cooler has a locking handle that secures the enzymes inside the cooler while in the freezer and while transporting them to the benchtop.

OPERATING INSTRUCTIONS AND BASIC MAINTENANCE

- Before initial use, the StrataCooler LP benchtop cooler must be frozen at -20°C to -25°C for a minimum of 24 hours.
- Store the StrataCooler LP benchtop cooler at -20°C between uses.
- Do not at any time freeze the StrataCooler LP benchtop cooler below -25°C .
- Thaw the StrataCooler LP benchtop cooler once a month to clear any ice that may form within the unit.
- To check or monitor the interior temperature of the StrataCooler LP benchtop cooler, insert a chilled microcentrifuge tube filled with ice-cold 50% (v/v) ethanol into one of the cooler cells. The temperature of the 50% (v/v) ethanol must be at -20°C . Allow the temperature to equilibrate for 5 minutes and then measure the temperature with a standard laboratory thermometer pre-chilled to -20°C .

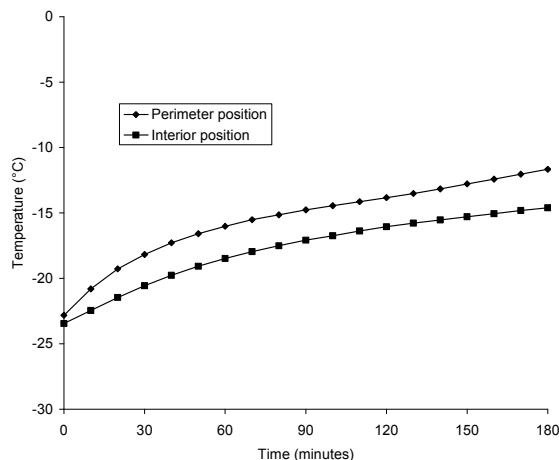


FIGURE 1 Temperature versus time graphs of a -20°C LP benchtop cooler placed at room temperature.

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