Keeping cryogenically preserved cells and biological samples frozen while handling is key to maintaining viability and function. Temperature sensitive samples, such as primary and cultured cells, protein extracts and RNA, can be irreversibly damaged by allowing the samples to warm or thaw. The CryoCooler™ was designed to prevent this warming of frozen samples during handling. Powered by liquid nitrogen, the CryoCooler™ provides a cryogenic environment (below -130°C) so that frozen samples and tubes can be handled and manipulated safely. The CryoCooler™ has a 6x5” well that can be used as a cryogenic work surface or hold a 5x5” liquid nitrogen storage box for safe handling of tubes. Under the work surface is an absorbent pillow that, once “charged” with liquid nitrogen, slowly releases the liquid nitrogen vapor. The slow vapor release keeps samples at cryogenic temperatures for over four hours with the lid closed and three hours with the lid open. The CryoCooler™ is a great tool for sorting vials, preparing samples, or transporting samples between laboratories.

The CryoCooler™ can also be used in conjunction with the CryoGrinder™ product line for the homogenization of small samples (<100 mg). The miniaturized mortar and pestle system allows for retrieval of homogenized samples without excessive sample loss.

Key Features

- New 6x5” well that holds a standard cryogenic storage box.
- Cryogenic temperatures last for over 4 hours with the lid closed and 3 hours with the lid open.
- CryoCooler™ allows for in-house transportation of cryogenic samples.
- CryoCooler™ is perfect for sorting and documenting cell culture vials.

Shown with CryoGrinder™

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Key Features

- Mortars and pestles composed of a durable porcelain zirconium composite that ensures fine grinding.

- Small well size allows for efficient recovery (up to 95%) of homogenized tissue.

- Motor driven using cordless torque wrench.

- Compact size allows for easy storage and processing of multiple samples in a small area (mortar is 1” square and 1.5” tall).

- Autoclavable mortar and pestle.

An improvement on the traditional mortar and pestle, the CryoGrinder™ retains the strength and durability of porcelain while adapting to the scale of molecular biologists. The CryoGrinder™ was specifically designed to grind small and difficult to homogenize tissues (e.g., skin, sclera) at cryogenic temperatures. Although most researchers use 10-20 mg, the CryoGrinder™ mortar can accommodate up to 100 mg of sample. The cordless, rechargeable wrench/screwdriver accommodates both small and large pestles to assist in the grinding process.

When used in conjunction with the CryoCooler™, the CryoGrinder™ is an effective means of homogenizing multiple samples.