



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax:01759 301143

sales@wolflabs.co.uk



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INTRODUCING the
SPEX SamplePrep



6870

FREEZER/MILL®

Because breaking up is hard to do...

SPEX SamplePrep's family of Freezer/Mills are cryogenic laboratory mills which chill samples in liquid nitrogen and pulverize them with a magnetically driven impactor. The SPEX SamplePrep Freezer/Mills have been recognized as the world's most effective laboratory mill, the "mill of last resort" for many normally impossible to grind samples.



■ **DNA/RNA Extraction:** Bone, teeth, hair, skeletal material—recent or ancient, plant and animal tissues, leaves, etc. Sample maintains low level temperatures due to continuous immersion in liquid nitrogen.

■ **Pharmaceutical Analysis/ Drug Testing:** Heat sensitive metabolites, isomers and complex molecules retain their composition as they are not degraded by heat or pressure.

■ **Volatile Compounds:** Insures retention of volatile components.

■ **Medical Research:** Pulverizing fresh sterilized bone to produce bone cement, grind implant materials for toxicity testing, tissue homogenization.

■ **WEEE/RoHS:** Embrittles sample to improve breaking properties, avoid frictional heat, while ensuring volatile fractions are not adversely affected.

■ **Plastics/Polymers:** Cryogenic temperature allows sample preparation for difficult to grind plastics and polymers.

Another cool
idea from...

SPEX
SamplePrep^{LLC}
Member SPEX CertiPrep Group



SPEX SamplePrep



6870
FREEZER/MILL®



Your sample preparation problems can be put on **ICE.**

SPEX
SamplePrep
Member SPEX CertiPrep Group

Because breaking up is hard to do...

ACCURACY

- Maintain Sample Temperature—Sample NEVER leaves the enclosed liquid nitrogen bath.
- Vial reaches -100°C in one minute—four 1/2 minutes to -196°C.
- Sample Integrity—Sample processed in a separate self contained grinding vial.
- Vials can be cleaned or disposed of—eliminate contamination.

VERSATILITY

- Touch screen interface for flexibility.
- Removable control panel.
- On board self diagnostics.
- Interconnectivity to a PC and/or the WEB via a USB port—Can download programs and factory troubleshooting anywhere in the world.
- Can store up to 10 grinding Protocols.
- Holds one 6801 large capacity vial (1-100 grams). Using the 6806 vial divider, the user can use four 6751 vials which will grind samples from (0.1-5.0 grams).

DURABILITY

- Maintenance-free design, only 1 moving part.
- Backed by SPEX SamplePrep's 50+ years of experience.

SAFETY

- Hinge safety switch for safety interlock.
- Temperature sensor to determine low Liquid Nitrogen—System will alarm and turn mill off to prevent coil damage.
- 6820 Auto-Fill option is available.
- CE Compliant.

6870 Freezer/Mill® comes with 6754 Extractor/Vial Opener and 6755 Vial Rack.

Grinding vials and accessories sold separately.



6870
FREEZER/MILL®

Features and Benefits