

Pharma-Prep

SAMPLE PREPARATION FOR PHARMACEUTICAL & MEDICAL LABS

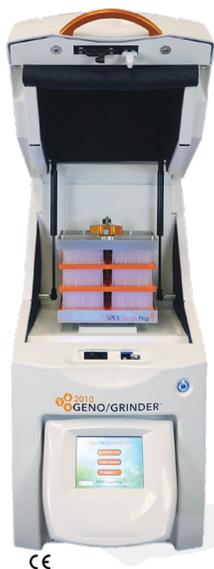
WWW.SPEXSAMPLEPREP.COM/PHARMA



SPEX SamplePrep is an industry leader in sample preparation products for pharmaceutical / medical research labs. Our powerful homogenizers, grinders and cryogenic mills provide reliable, reproducible results without cross contamination.

2010 GENO/GRINDER®

High Throughput
Tissue Homogenizer



1600 MiniG®

Tissue
Homogenizer



Kryotech accessories



DNA extraction in the Geno/Grinder®



Animal Tissue



Bacteria Cells

APPLICATIONS INCLUDE:

- :: DNA/RNA Extraction
- :: Mixing & blending
- :: Protein Extraction
- :: Quality control
- :: Disease research
- :: Drug delivery studies
- :: Contamination testing

FEATURES

The **Geno/Grinder®** has an adjustable clamp that gives the user increased flexibility for running titer plates or different sized vials. The MiniG is available for lower throughput labs. **Kryo-Tech® accessories** can be used to preserve temperature sensitive samples such as RNA and proteins.

Customer types: Pharmaceutical research companies, disease research institutes and biotechnology companies.

Product synergy: DNA separation (centrifuges), amplification (PCR) and sequencing (NGS) equipment. Mass Spectrometers for protein analysis

Typical samples: Small mammal (mouse) tissue, yeast cultures, bacteria

Typical sample size/format: 96 well titer plates and 2mL or 5mL vials

Typical grinding media: Steel balls for tougher tissue samples, silica or ceramic beads for softer samples, yeast and bacteria

SPEX® SamplePrep®

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FREEZER/MILL® CRYOGENIC GRINDER

6875 FREEZER/MILL®

Single chamber: 0.1-100 grams



6875D FREEZER/MILL®

Dual chamber: 0.1-200 grams



6775 FREEZER/MILL®

Single chamber: 0.1-5 grams

Scan the QR code to see the Freezer/Mill in action



8000M Mixer/Mill® HIGH-ENERGY BALL MILL



Scan the QR code to learn more about the Mixer/Mill

FEATURES

The **Freezer/Mill®** grinds tough or temperature sensitive samples at cryogenic temperatures. This mill is able to process the toughest tissue samples such as tendon and organs. It can also be used for grinding pharmaceutical packaging, capsules and patches for testing of contamination and restricted compounds.

Product synergy: DNA separation (centrifuges), amplification (PCR) and sequencing (NGS) equipment. Mass Spectrometers for protein analysis. GC-MS, ICP for QC labs testing elemental or organic composition.

Customer types: Pharmaceutical R&D and manufacturing, Disease research institutes and Contract testing labs.

Typical samples: Small mammal (mouse organs) and tendon, yeast cultures, packaging, patches (eg nicotine), tablets

Typical sample size/format: 5-100g For metals testing metal free vials are available

Applications include: DNA/RNA or protein extraction from tough tissue samples and yeast cultures. Contamination testing in pharmaceutical products and packaging following USP method 232.

Pharma Tablets processed in the Freezer/Mill®



Before



After

FEATURES

The **Mixer/Mill®** is the ideal solution for both R&D and QC labs that need a basic ball mill for grinding or blending. This high energy ball mill is capable of grinding dry pharmaceutical compounds to fine homogenous powder or blending different compounds together.

Product synergy: GC-MS, ICP, acid digestors.

Customer Types: Pharmaceutical R&D and manufacturing

Typical samples: Tablets, powdered pharmaceutical ingredients Typical sample size/format: 5-10g. Stainless steel vial for grinding, polystyrene vials for mixing and blending

Applications include: Grinding or blending active pharmaceutical ingredients (API).