

# 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



### MiniG® Tissue Homogenizer



### 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 and bacteria.

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

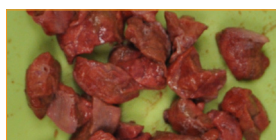
**Typical grinding media:** Steel balls for tougher tissue samples, silica or ceramic beads for softer samples, yeast and bacteria.



Kryotech accessories



DNA extraction in the Geno/Grinder®



Animal Tissue



Bacteria Cells



**WATCH THE VIDEO**  
Scan the QR code to see the  
Geno/Grinder in action

**SPEX® SamplePrep** 

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## 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 (e.g. nicotine), tablets.

**Typical sample size/format:** 5-100 grams 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:** 5-10 grams. Stainless steel vial for grinding, polystyrene vials for mixing and blending Grinding or blending active pharmaceutical ingredients (API).

**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



**WATCH THE VIDEO**  
Scan for the QR code to see  
the Freezer/Mill in action



**8000M**  
**MIXER/MILL®**  
HIGH-ENERGY BALL MILL



Agate vial



**WATCH THE VIDEO**  
Scan for the QR code to  
learn more about Mixer/Mill

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