



The Ultimate Cryogenic Grinder for Yeast Applications

6770
Freezer/Mill®



Yeast is a popular host for gene expression studies and the production of recombinant proteins. However, yeast mRNA and intracellular proteins are often difficult to extract intact from cells by traditional enzymatic methods. Cryogenic grinding of yeast results in less denaturation of intracellular protein and DNA and it is the ideal technology for release of protein and DNA.

The Freezer/Mill® is the ideal tool for yeast applications.

- :: Efficiently lyses yeast samples in minutes.
- :: Pulverizes temperature-sensitive samples in a sealed vial while maintaining them at liquid nitrogen temperature.
- :: Touch screen allows easy control of grinding time, impactor rate, pre-cooling and intercooling times.

Achieve Great Results in Just 3 steps

Sample: Frozen Yeast Pellets

- 1 Pre-cool vials before adding yeast pellets.
- 2 Add yeast pellets to vials then pre-cool in the Freezer/Mill® for 10-15 minutes.
- 3 **Grinding Time:** 15x two-minute grinding cycles at 15 cps with a one minute intercool. **Results:** 90% or more of the yeast cells can be disrupted using this method.

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SPEX® SamplePrep®

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The 6770 Freezer/Mill® is a small cryogenic grinder with a self-contained liquid nitrogen tub and insulated case. Grinds samples from 0.1 to 5.0 grams.

1. Safety features include LN sensor and lid interlock. If lid is opened during the grinding process grinding will stop.
2. Closed grinding vial with impactor prevents sample cross-contamination. Grinding chamber holds one standard small grinding vial or one microvial set.
3. Liquid nitrogen is required for operation. The sample's temperature is maintained because it NEVER leaves the enclosed liquid nitrogen bath.
4. Includes removable control panel with touch screen interface for ease of use. Stores up to 10 grinding protocols.

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The 6870 Freezer/Mill® is a larger cryogenic grinder with a self-contained liquid nitrogen tub and insulated case. It grinds samples from 0.1 to 100 grams.

1. Safety features include an LN sensor and lid interlock. The unit will stop grinding if the lid is opened during the grinding process.
2. Closed grinding vial with impactor prevents sample cross-contamination. Grinding chamber can hold one large vial, one mid-sized vial, or up to four standard small vials.
3. Sample's temperature is maintained because the sample vial NEVER leaves the enclosed liquid nitrogen bath.
4. Also has a removable control panel with touch screen interface for ease of use. Stores up to 10 grinding protocols.
5. Auto-Fill System is available to automatically fill the bath with liquid nitrogen.

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