

Homogenization Accessories

For the GenoGrinder, HT Homogenizer, and Other Mixer Mills

OPS Diagnostics, LLC
672 Rt. 202-206 North
Bridgewater, NJ 08803

TEL (908) 253-3444
FAX (908) 575-1660
Email: info@btc-bti.com

Sample Preparation Products

Vial Sets

Provided in either an SBS 24 well form or as five larger vials per box, the vial sets are a tool to speed up the homogenization of samples. Vial sets are useful for larger, hard to grind samples. Vial sets come in cases of 10 sets, with each set having vials, grinding balls, and caps. Caps are available lined and unlined.



Grinding Vials

Polycarbonate Vials, 4 ml, available in vial sets or replacement vials, is the best vial for grinding hard samples such as seeds and bone.

Polyethylene Vials, 4 ml, are also provided in vial sets or as replacement vials. Polyethylene vials are used with buffers that contain phenol or chloroform, such as those used with RNA isolation.



15 ml Polycarbonate Vials are large, sturdy vials used for homogenizing large samples or pooled samples. Up to 15 corn kernels or 3 gm of tissue can be homogenized in these large vials. These vials can be chilled in liquid nitrogen and used directly for cryogenic homogenization.



Grinding Balls

Stainless steel grinding balls are cleaned and ready to use. These re-useable balls can be retrieved with magnets to simplify their removal from grinding vials and plates.

Available in three sizes:
5/32" Balls, Bottle of 5000, 3/8" Balls, Carton of 1000, and 7/16" Balls, Carton of 1000



Ball Dropper/Bead Dispenser

Simplify adding beads to micro-well plates by using the ball dropper. Grinding balls can be added to all 96 wells or selected rows. Both full and empty plates can be filled. It can also serve to dispense 100 to 400 micron grinding beads into microwell plates.



Beads

Microorganisms require micron sized beads for disruption. Multiple sizes and grades are available, included:

Acid Washed Beads

Molecular Biology Grade Beads

Low Binding Beads



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Magnets

24 Pin Magnet/ Ball Separator

High throughput labs that need to process samples quickly will find the 24 Pin Magnet a useful tool for removing and dropping grinding balls into 24 well vial sets. Used with the Ball Separator, this tool is a handy device that minimizes handling of grinding balls and samples.



Magnet Tips

Removing grinding balls from deep well plates and vials is convenient when Magnet Tips are used. These tips fit conventional micropipettes and are supplied with a rare earth magnet fixed to the end. These tips are reusable and can be washed with nuclease decontaminating solutions.



Closures

Sealing Mat

Press on seals for vials sets are made of soft FDA approved silicone. Sealing mats are autoclavable and reusable.



Unlined Caps

Polypropylene caps for 4 and 15 ml vials are used for dry grinding.



Lined Caps

Silicone lined caps prevent leakage of liquids from vials. Caps available in 38-400 and 15-425 sizes.

Cryogenic Workstations

CryoCooler

Charge the CryoCooler with liquid nitrogen and it serves as a bench top workstation for handling cryogenic samples. The recessed well has room for a deep well plate, vial set, or rack of microfuge tubes.



Cryogenic Workstation

The larger version of the CryoCooler, this station has room for two storage boxes and multiple deep well plates. An excellent tool for sorting samples and large scale prep.



Homogenizers

GenoGrinder

This high throughput homogenizer has room for two deep well plates. At speeds from 600-1600 rpm, this linear motion homogenizer can disrupt seeds, tissues, microbes, and more. An optional large clamp assembly can be used to homogenize samples in 15 and 50 ml tubes.



HT Homogenizer

Smaller and more compact, the HT Homogenizer is also a linear motion homogenizer that holds a single deep well plate, vial set, or rack of microfuge tubes. With a dynamic speed range of 50 to 1600 rpm, this homogenizer can be used to mix and pulverize.



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