

# TurboMix™

## High performance attachment for Vortex-Genie® 2 Family of Mixers



1.5ml Snap-top Microtube Holder Shown

The TurboMix Attachment permanently mounts to most existing Vortex-Genie 2 family of mixers to provide extremely vigorous mixing of up to twelve 1.5ml microtubes or 2.0ml microtubes through a combination of vortexing and impact collision. This system is ideal for aggressive and rapid dissolution, resuspension or mixing of samples and is also convenient and effective for cell disruption in glass bead procedures.

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Shown on Vortex-Genie 2 Mixer

- Dramatically increases vortexing efficiency – rapid and aggressive cell disruption and pellet resuspension
- Rapidly disrupts yeast cells, bacteria, plant and animal tissue when used in glass bead procedures. Compares favorably to Mini-Bead Beater™\*
- Hands-free operation. Twelve 1.5ml microtube or 2.0ml microtube capacity
- Suitable for use in cold rooms and incubators
- Economical – compared to other methods of cell disruption such as ultrasonic disintegrators
- Use with Disruptor Beads™, made from spherical lead free soda lime glass, available in two sizes

### Ordering Information

Catalog No.	Description
SI-0562	TurboMix Attachment, 2.0ml Tubes
SI-0563	TurboMix Attachment, 1.5ml Tubes
0A-0563-010	1.5ml Snap-top Microtube Holder
0A-0563-011	2.0ml Screw-cap Microtube Holder
SI-BG01	Disruptor Beads, 0.1mm, 375g (8 fl. oz.)
SI-BG05	Disruptor Beads, 0.5mm, 375g (8 fl. oz.)

### Specifications

Size (DxWxH)	165 x 122 x 190mm - Installed on Mixer (6.5 x 4.8 x 7.5in)
Capacity	Up to 12 - 1.5ml or 2.0ml microtubes (additional holders sold separately, tubes not supplied)
Construction	Stainless steel bracket mounts to the rear of the Vortex-Genie 2 family of mixers. Microtube holder can be removed to allow use of the 3-inch Platform and Pop-off Cup. Bracket width will not accommodate other attachments.

#### A procedure for yeast disruption with the TurboMix Attachment or Disruptor Genie™:

Grow 5-20ml of yeast culture to OD 0.4-0.8. Collect cells by centrifugation. Resuspend in 0.3ml of precooled buffer containing 50mM Tris-HCl, pH 7.4, 150 mM NaCl, 5 mM EDTA, 1% Triton X-100 and a cocktail of protease inhibitors (aprotinin, E-64, chymostatin, phosphoramidon, N-ethylmaleimide, pepstatin A, and PMSF, each at 50mg/ml). Place cell suspensions in microtubes and add glass beads. Place tubes into TurboMix or Disruptor Genie™ in a cold room and vortex at maximum speed for 3 min. This procedure should provide almost complete disruption of yeast cells.



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