

MBI BeadBlaster™ 24

Microtube Homogenizer

SKU: MBIZR-02909-99



BeadBlaster Family: 24 | 24R | 6

Overview

The **MBI BeadBlaster 24** is a high-capacity microtube homogenizer that completely lyses, grinds, and homogenizes a broad variety of biological samples. Even the most difficult and resistant samples are fully homogenized, often in **35 seconds or less**. The stainless steel tube carrier subjects up to **24 samples** to an optimized, high-speed, 3D motion, producing high-energy impacts between the samples and micro-beads to release cellular contents. After homogenization, samples can be centrifuged and the supernatant collected for further processing.

Key Features

- High throughput: **24 × 2.0 mL tubes**
- Fast homogenization in **35 seconds or less**
- Optimized high-speed **3D motion**
- Sealed tubes eliminate **cross-contamination**
- Digital speed/time control with clear display
- Speed: **4.0–7.0 m/s** (2430–4260 rpm)
- Cycle time: **1–90 sec** · Pause: **0–2 min**
- Up to **10 cycles** per program · **50 profiles** memory
- Consecutive cycle mode for heat-sensitive samples
- Transparent lid for **sample visualization**
- Mechanical lid lock for safety
- **Brushless motor** · Universal **100–240 V**
- **2-year warranty**

Applications

- Cell lysis and tissue homogenization · DNA/RNA extraction · Protein extraction
- Microbial/yeast cell disruption · Bacterial/fungal cell lysis
- Plant tissue grinding · Soil/environmental sample homogenization
- General bead beating and extraction workflows

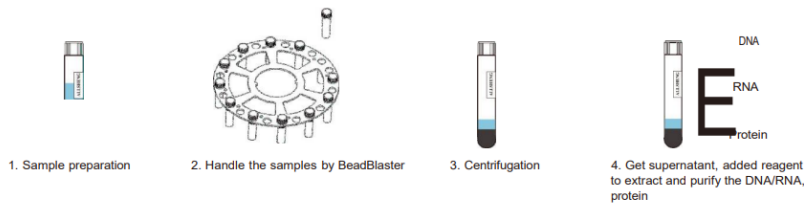
Consumables: Full range of prefilled tube kits. Triple-Pure kits with acid-washed, heat-treated zirconium beads (nuclease-free) for molecular biology.

Technical Specifications

Parameter	Specification
Capacity	24 x 2.0 mL tubes
Speed Range	4.0–7.0 m/s (0.05 m/s increments); 2430–4260 rpm (10 rpm increments)
Cycle Time	1–90 sec (1 sec increments)
Pause Between Cycles	0–2 min (1 sec increments)
Max. Cycles / Program	10
Program Memory	Up to 50
Accel. / Decel.	< 2 sec / < 2 sec
Noise Level	< 68 dB
Dimensions (WxDxH)	11 x 14.2 x 15.2 in / 28 x 36 x 38.5 cm
Weight	55 lb / 25 kg
Electrical	100–240 V, 50/60 Hz, 600 W
Warranty	2 years

Operation Procedure

Operation procedure



Note: Because of the heat produced during the grinding process, so suggest to keep the tube with sample in the low temperature (-40°C) about 12 hours before grind work for get a better effect.

Consumable comparison



Sample prep → BeadBlaster → Centrifugation → Extraction & purification