

Benchmark 

# BEADBLASTER™ 24

Microtube Homogenizer

- + **Fast, efficient homogenization in about 35 seconds**
- + **For all sample types, from soft tissue to bone**
- + **High throughput - up to 24 samples**
- + **Sealed, 2.0ml tubes - no cross contamination**



**MICROTUBE HOMOGENIZER**



The BeadBlaster™ 24 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.

Operating parameters for the BeadBlaster 24 are set and displayed digitally. To protect fragile, heat sensitive samples, the unit can be programmed to operate in shortened consecutive cycles with a rest period in between. Up to 50 such programs can be stored in memory and recalled for future use. A transparent lid allows for visualization of samples, and features a mechanical lid lock that prevents opening of the lid when the BeadBlaster is in operation. A brushless motor reduces motor noise and provides maintenance free operation.

Benchmark offers an assortment of prefilled tube kits for a variety of sample types. The popular Triple-Pure™ kits include acid washed, heat treated, zirconium beads. The beads are tested to be free of nucleases, making them ideal for molecular biology applications. A convenient starter kit (D1032-SK) is available to accommodate a broad range of sample types and optimize applications.

**Technical Data:**

|                          |                                       |
|--------------------------|---------------------------------------|
| Capacity:                | 24 x 2.0ml tubes                      |
| Speed:                   | 4.00 to 7.00 m/s, 0.05 increments     |
| Cycle time:              | 1 - 90 sec, 1 sec increments          |
| Pause between cycles:    | 0-2 min, 1 sec increments             |
| Max. cycles per program: | 10                                    |
| Program memory:          | up to 50                              |
| Accel. / Decel. time:    | <2 sec / <2 sec                       |
| Noise level:             | <68db                                 |
| Dimensions (WxDxH):      | 11 x 14.2 x 15.2 in / 28 x36 x38.5 cm |
| Weight:                  | 55 lb / 25kg                          |
| Electrical:              | 100V to 240V, 50-60Hz, 600W           |
| Warranty:                | 2 years                               |



**Ordering Information:**

D2400\* *BeadBlaster™ 24* place Microtube Homogenizer

**Pre-filled Tube Kits:**

|           |  |
|-----------|--|
| D1031-01  | Standard glass beads, Ø0.1mm, 50pk.  |
| D1031-05  | Standard glass beads, Ø0.5mm, 50pk.  |
| D1031-10  | Standard glass beads, Ø1.0mm, 50pk.  |
| D1032-01  | <i>Triple-Pure</i> , High Impact zirconium beads, Ø0.1mm, 50pk.                        |
| D1032-05  | <i>Triple-Pure</i> , High Impact zirconium beads, Ø0.5mm, 50pk.                        |
| D1032-10  | <i>Triple-Pure</i> , High Impact zirconium beads, Ø1.0mm, 50pk.                        |
| D1032-15  | <i>Triple-Pure</i> , High Impact zirconium beads, Ø1.5mm, 50pk.                        |
| D1032-30  | <i>Triple-Pure</i> , High Impact zirconium beads, Ø3.0mm, 50pk.                        |
| D1032-SK  | <i>Starter Kit</i> , 10 each of Ø0.1, 0.5, 1.0, 1.5 & 3.0 <i>Triple-Pure</i> Zirconium |
| D1033-28  | Stainless Steel Beads, Ø2.8mm, 50pk. (Acid Washed)                                     |
| D1031-T20 | Empty Tubes (2.0ml), pack of 1000  |

\* Supplied with US plug, for EU plug, please add (-E) to item number.



Standard Glass beads (Acid Washed)



Triple-Pure™ (Molecular Biology Grade) Zirconium Beads