



The BeadBlaster™ 24R Refrigerated Microtube Homogenizer completely lyses, grinds and homogenizes a broad variety of biological samples. A powerful refrigeration system protects heat sensitive samples during homogenization.

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 processing samples can be centrifuged and the lysate removed with a pipette.

Operating parameters for the BeadBlaster 24 are set and displayed digitally. Up to 50 homogenization profiles can be stored in memory and recalled for future use. A mechanical lid lock prevents opening the lid while the BeadBlaster is in operation. A powerful compressor maintains chamber temperature while the 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:	<b>24 x 2.0ml tubes</b>
Speed:	<b>4.00 to 7.00 m/s, 0.05 increments</b>
Cycle time:	<b>1 - 90 sec, 1 sec increments</b>
Pause between cycles:	<b>0-2 min, 1 sec increments</b>
Max. cycles per program:	<b>10</b>
Program memory:	<b>up to 50</b>
Accel. / Decel. time:	<b>&lt;4 sec/ &lt;4 sec</b>
Cooling method:	<b>Compressor</b>
Temperature range:	<b>-10°C to ambient</b>
Precool ambient to 0°C:	<b>&lt;30 minutes</b>
Chamber uniformity:	<b>±2°C</b>
Noise level:	<b>&lt;65db</b>
Dimensions (WxDxH):	<b>12.6 x 20.1 x 16.2 in / 32 x 51 x 41 cm</b>
Weight:	<b>88 lb / 40kg</b>
Electrical:	<b>120V/50Hz or 240V/60Hz</b>
Warranty:	<b>2 years</b>



### Ordering Information:

**D2400-R\*** BeadBlaster™ 24R Refrigerated Microtube Homogenizer for 24x2.0ml tubes  
**D2400-R5** Optional tube holder, 12x5ml tubes

#### Pre-filled Tube Kits: (2.0ml unless otherwise noted)

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	Triple-Pure, High Impact zirconium beads, Ø0.1mm, 50pk.
D1032-05	Triple-Pure, High Impact zirconium beads, Ø0.5mm, 50pk.
D1032-10	Triple-Pure, High Impact zirconium beads, Ø1.0mm, 50pk.
D1032-15	Triple-Pure, High Impact zirconium beads, Ø1.5mm, 50pk.
D1032-30	Triple-Pure, High Impact zirconium beads, Ø3.0mm, 50pk.
D1032-SK	Starter Kit, 10 each of Ø0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure Zirconium
D1033-28	Stainless Steel Beads, Ø2.8mm, 50pk.
D1033-30G	Gamet shards and one Ø6mm satellite, 50pk
D1034-MX	Ø0.1mm silica, Ø1.4mm zirconium and Ø24mm silica, 50pk
D1032-60	Ø6mm ceria based zirconium oxide satellite, 50pk
D1034-28	Stainless Steel Beads, Ø2.8mm, 5ml tube, 50pk

Empty tubes and bulk beads also available.

\* 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