

## BeadBlaster™ 24 and 24R Microtube Homogenizers



CE

- + Fast, efficient homogenization, usually in 35 seconds or less
- + For all sample types, from soft tissue to bone
- + High throughput, up to 24 samples
- + True refrigeration - no external connections, dry ice or liquid nitrogen (D2400-R model only)

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. The BeadBlaster 24R features true, compressor based refrigeration to keep heat sensitive samples cool.

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 samples and optimize applications.



Stainless steel, 24 position tube carrier



Video Demonstration



### Ordering Information:

#### Technical Data:

Speed:	4.00 to 7.00 m/s (2,430 to 4,260 rpm)
Speed Increments:	0.05 m/s
Capacity:	24 x 2.0ml tubes or 12 x 5ml tubes
Cycle Time:	1 to 90 sec. (1 sec. increments)
Pause Between Cycles:	0 to 2 min. (1 sec. increments)
Max Cycles Per Program:	10
Program Memory:	50
Accel/Decel:	<2 sec. / <2 sec., D2400 <4 sec. / <4 sec., D2400-R
Noise Level:	<68 db, D2400 <65 db, D2400-R
Cooling Method:	Compressor, D2400-R
Precool Ambient to 0°C	<30 minutes, D2400-R
Operating Temp. Range:	+4 °C to +65 °C
Temp. Range:	-10°C to ambient, D2400-R
Dimensions:	11 x 14.2 x 15.2 in. / 28 x 36 x 38.5cm, D2400 12.6 x 20.1 x 16.2 in. / 32 x 51 x 41cm, D2400-R
Weight:	55 lbs / 25 kg D2400 88 lbs / 40 kg D2400-R
Electrical:	100V to 240V, 50-60Hz, 600W, D2400 120V or 230V, 50-60Hz, 1000W, D2400-R
Warranty:	2 Years

Item No.	Description:
D2400*	BeadBlaster™ 24 Microtube Homogenizer with 24 x 2.0ml tube holder
D2400-R*	BeadBlaster™ 24 Refrigerated Microtube Homogenizer with 24 x 2.0ml tube holder
D2400-R5V2	Optional tube holder, 12 x 5ml
Prefilled Tube Kits:	Include 2.0ml non-skirted screw cap tubes with caps, sealing rings and beads as specified below:
D1031-01	Standard glass beads, Ø 0.1mm, 50pk.
D1031-05	Standard glass beads, Ø 0.5mm, 50pk.
D1031-10	Standard glass beads, Ø 1.0mm, 50pk.
D1032-01	Triple-Pure™, high impact zirconium beads, Ø 0.1mm, 50pk.
D1032-05	Triple-Pure™, high impact zirconium beads, Ø 0.5mm, 50pk.
D1032-10	Triple-Pure™, high impact zirconium beads, Ø 1.0mm, 50pk.
D1032-15	Triple-Pure™, high impact zirconium beads, Ø 1.5mm, 50pk.
D1032-30	Triple-Pure™, high impact zirconium beads, Ø 3.0mm, 50pk.
D1032-SK	Starter Kit, 10 ea. of Ø 0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure™, high impact zirconium
D1032-60	One ceria zirconium oxide satellite, Ø 6.0mm, 50pk.
D1033-28	Stainless steel beads, Ø 2.8mm, 50pk.
D1033-30G	Garnet shards with 1 zirconium bead Ø 6.0mm, 50pk.
D1034-MX	Mixed format, 0.1mm silica, 1.4mm zirconium, 4mm silica, 50pk.
D1031-T20	Empty tubes (2.0ml) pack of 1000
D1031-RFS	Reinforced empty tubes (2.0ml) pack of 600
D1034-28	5ml tubes with stainless beads, Ø 2.8mm, 50pk.

Additional bead types are also available (in both bulk and prefilled kits). Please contact Benchmark for a complete listing.

\*Includes US plug. For EU plug, please add (-E).