

PowerLyzer™ 24

Bench Top Bead-Based Homogenizer

Obtain rapid, reliable, and powerful homogenization and lysis of any biological sample

Versatile operation

99 customizable program settings with adjustable speeds and time

Robust design

Unique front-loading profile maximizes bench space and safety

Efficient processing

Process 24 samples, hands-free, in seconds

With its wide range of adjustable rpm speeds, the PowerLyzer™ 24 homogenizer efficiently extracts high quality DNA from a variety of plant sources.



2000 rpm

2200 rpm

2500 rpm

Lanes 1,2: tulip leaf
Lanes 3,4: basil leaf
Lanes 5,6: tulip stem

Lanes 7,8 : basil stem
Lanes 9,10 : tulip root
Lanes 11,12: basil root



MO BIO
Laboratories, Inc.

Saving You Time For Life

800-606-6246

PowerLyzer™ 24 Bench Top Bead-Based Homogenizer



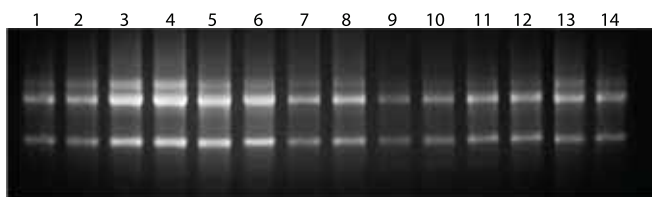
The answer to rapid and efficient homogenization of any biological sample

The PowerLyzer™ 24 Bench Top Bead-Based Homogenizer is a bead beating instrument uniquely designed for the most efficient and effective lysis and homogenization of any biological sample. In as little as 30 seconds, the PowerLyzer™ 24 homogenizer is capable of processing up to 24 samples in 2 ml tubes. With true "hands-free" operation, the hassle of "baby-sitting" samples through multiple cycles is eliminated. Even the toughest and most difficult samples such as pine needles, seeds, spores, fungal mats, bone, and skin are easily and effectively lysed using the PowerLyzer™ 24 homogenizer's 99 customizable program settings and MO BIO's high-quality nucleic acid isolation kits. With the PowerLyzer™ 24 homogenizer, you'll save hours of work and sample manipulation, *saving you time for life*.

Remarkable versatility

Whether you are working with DNA samples that require low-velocity agitation or tough RNA samples that require harsh lysis and violent vortexing, the PowerLyzer™ 24 homogenizer can be programmed to meet any application need. With precise revolutions-per-minute control ranging from 2000 to 5000 rpm, and up to 10 programmable cycle interval times ranging from 1 second to 5 minutes, the PowerLyzer™ 24 homogenizer provides the most flexible homogenization and lysis, and the highest quality and yields of any commercially available homogenizer.

The PowerLyzer™ 24 homogenizer efficiently generates high quality RNA from a variety of mouse tissues



Mouse tissues (8 mg liver (1,2) and spleen (3,4), 10 mg kidney (5,6), and 12 mg lung (7,8), heart (9,10), brain (11,12), and muscle (13,14)) were homogenized in 2.8 mm Ceramic Bead Tubes (cat# 13114-50) using the PowerLyzer™ 24 homogenizer for two 45-second pulses with a 30-second cool down between pulses at 3500 rpm. RNA was extracted using the UltraClean® Tissue & Cells RNA Isolation Kit (cat# 15000-50) with the On-Spin Column DNase I Kit (cat# 15100-50). Two microliters of each eluate were electrophoresed on a 1% agarose gel. Results indicate high quality and yields of RNA obtained for all samples tested using the PowerLyzer™ 24 homogenizer.

Quiet homogenization designed to fit

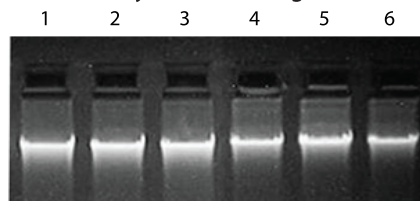
The PowerLyzer™ 24 homogenizer's unique front-loading profile and space saving design make it easy to process samples quickly, quietly, and safely. This design maximizes bench space and allows for convenient placement even with low overhead cabinetry. The solidly constructed lid provides durability and contains a specially designed gasket that ensures quiet operation. A built-in digital reminder is displayed

to ensure proper assembly and containment of all sample tubes and provides added safety when the homogenizer is in use. A removable tube holder and stand are available separately for convenient processing and transport of up to 24 samples at once.

Efficiency saves time

The PowerLyzer™ 24 horizontal tube positioning and unique bead-beating action allows for reduced homogenization speed and time and provides more efficient and effective lysis with minimal shearing and sample damage. Even the toughest samples requiring the most stringent protocols require less time and lower speeds for homogenization.

Homogenize twice as fast using the PowerLyzer™ 24 homogenizer



DNA was isolated from *E. faecalis* using the UltraClean® Microbial DNA Isolation Kit (cat# 12224-50) and the 0.15 mm Garnet Bead Tubes (cat# 13122-50). Samples were processed using the PowerLyzer™ 24 homogenizer at 2000 RPM for 5 minutes (4,5,6) and compared to samples processed using a vortex (standard protocol) for 10 minutes (1,2,3). Ten microliters of each eluate were electrophoresed on a 1% agarose gel. Results confirm that the quality and yield of DNA processed using the PowerLyzer™ 24 homogenizer is comparable to samples processed using a vortex and require half the processing time.

Optimized for MO BIO kits

The PowerLyzer™ 24 homogenizer has been optimized for use with MO BIO DNA and RNA extraction kits to give you the fastest and most effective and consistent lysis and purification of your nucleic acid samples. Choose a PowerLyzer™ 24 integrated system to meet your specific sample needs.

Ordering Information

Catalog No.	Description	Quantity
13155	PowerLyzer™ 24 Bench Top Bead-Based Homogenizer (120V)	1 unit
13156	PowerLyzer™ Tube Holder	1 unit
13157	PowerLyzer™ Tube Holder Stand	1 unit
12855-50	PowerLyzer™ PowerSoil® DNA Isolation Kit	50 preps
12255-50	PowerLyzer™ UltraClean® Microbial DNA Isolation Kit	50 preps
13355-50	PowerLyzer™ UltraClean® Plant RNA Isolation Kit	50 preps
15055-50	PowerLyzer™ UltraClean® Tissue & Cells RNA Isolation Kit	50 preps

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