

Bioprep-24 Homogenizer



Product Information

Fast, effective and reproducible homogenization of a wide range of samples, including tissues and cells hard to lyse. It also owns extraordinary power for the processing of even impact resistant samples such as bones or cartilage.

Using disposable sample tubes pre-filled with a variety of lysing beads, the Bioprep-24 vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization usually in less than 35 seconds.

Typical Samples:

- Animal, Plant, Human cells;
- Micro-organisms;
- Drugs, polymers, lotions, etc.
- Soil and sediments;
- Swabs and feces
- Bone, brain, tumors
- Bacterial gram + or –
- Yeast, fungi, spores

- Seeds, roots
- Feces, swabs

Applications:

Any researcher who requires genomic DNA, RNA or recombinant protein as a starting material will benefit from the unit system.

- Northern blot analysis, qPCR and microarrays
- Optimization of recombinant protein expression
- Library synthesis and Southern blots
- Pathogen screening of soil or water
- RT-PCR and differential display
- Environmental surveys
- Verification of food safety

How to use beads

1.4mm&2.8mm Ceramic Beads	3mm&6mm Metal Beads	1mm&3mm Glass Beads
Ideal for soft animal, plant or human tissues: <ul style="list-style-type: none"> • brain • liver • skin • leaves • gonad • muscle, etc. 	Ideal for any hard tissue types: <ul style="list-style-type: none"> • hair • teeth • bones • seeds • corn • rice • nail, etc. 	Ideal for microorganisms Optimal for: <ul style="list-style-type: none"> • spores • fungi • yeast • e-coli, etc.

Features for Bioprep-24 Homogenizer

1. “3D Rotating High Speed Motion” for quick disruption of those fibrous tissues and resistant cells
2. 50 Programmable memory settings and user optional condition settings
3. A wide range of rotation speed settings from 4.0 m/s to 7.0 m/s, increment 0.05 m/s
4. Brushless motor realizing no brush particle generation and no brush replacement

5. Easy to remove sample tube holder and easy to fix sample tubes with the turn of the central knob
6. Easy to monitor the disruption process through the clear lid
7. Simultaneously homogenize either 24x2ml / 1.5ml / 0.5ml or 6x5ml tubes
8. Disposable tubes ensure no threat of cross-contamination
9. Most samples can be processed in 35 seconds or less

Technical Data

Type	Bioprep-24
Display	OLED
Speed Range(m/s)	4.00m/s~7.00m/s, increment 0.05m/s
Speed Range (rpm)	2430rpm — 4260rpm, increment 10rpm
Cycle Duration	1s — 90s, increment 1s
Pause time	1s — 120s, increment 1s
Cycle	10
Programmable	50
Samples	24 x 2ml/1.5ml/0.5ml or 12 x 5ml grinding tube

Acceleration Time	<4s
Deceleration Time	<4s
Noise	<70 db
Power	500W
Dimensions (W×D×H)	280×360×385 mm
Weight (kg)	25.0 kg
Power Supply	AC100~240V, 50/60Hz

Accessories

Code	Description
AS-13010-01	Rotor for 24×2.0ml
AS-13010-02	Rotor for 6×5.0ml
AS-13010-03	2.0ml tubes
AS-13010-04	5.0ml tubes
AS-13010-05	Φ1.4mm Silica beads
AS-13010-06	Φ2.8mm Silica beads

AS-13010-07	Φ3mm Metal beads
AS-13010-08	Φ6mm Metal beads
AS-13010-09	Φ1mm glass beads
AS-13010-10	Φ3mm glass beads