

Bioprep-24R Biological Sample Homogenizer



Introduction:

The Bioprep-24R biological sample homogenizer is a fast and high-throughput homogenizer that integrates three functions: grinding, lysis, and homogenization. It uses three-dimensional high-speed vibration and the beating of grinding beads (glass beads, ceramic beads, steel balls, etc.) to achieve the purpose of grinding, pyrolyzing, and homogenizing the sample. It can effectively homogenize samples of animal and plant tissues, bacteria, fungi, etc. It is very effective for samples that are difficult to handle with general equipment, such as spores, hair, bones, feces, soil, etc., with relevant kits, it can be quickly, efficiently, stably, and batched. Extract DNA/RNA/protein, etc. in the sample, and preserve the integrity of these biomolecules.

Features:

1. It can homogenize most samples and retain the integrity of biomolecules (DNA, RNA, protein) and drug molecules
2. It can process 24 2ml samples/12 5ml samples at the same time--Bioprep-24R
3. Different materials of grinding beads and corresponding procedures can be selected for different samples

4. Precisely set homogenization time and running speed, and can store 50 programs
5. Use a separate crushing tube for each sample, so there will be no cross-contamination
6. Grinding beads with a variety of materials and diameters are available for different types of samples
7. Not only saves time and effort, but also has smaller differences between batches and within batches

Technical Parameters:

Temperature setting range: -10~40℃

Time required to decrease to 0℃: 30min

Uniformity of inner tank: $\leq \pm 2^{\circ}\text{C}$

Display interface: OLED

Oscillation speed: 4.00m/s ~ 7.00m/s (in increments of 0.05m/s)

Oscillation speed: 2430rpm--4260rpm, step 10rpm

Running time: 1s--90s, in increments of 1s

Gap time: 1s--120s, in increments of 1s

Number of cycles: 10

Storage procedures: 50

Sample size: 24x2ml/1.5ml grinding tubes or 12x5ml grinding tubes

Acceleration time: <4s

Deceleration time: <4s

Noise level: <70db

Maximum input power: 1000W

Dimensions (W×D×H) mm: 330mm×520mm×400mm

Weight (kg): 40.0kg

Power supply: AC100-240V, 50/60Hz

Optional accessories:

AS-13011-01: Rotor for 24x2.0 ml (Bioprep-24/Bioprep-24R)---Standard

AS-13011-30: Rotor for 12x5.0 ml (Bioprep-24/Bioprep-24R)

AS-13011-03: 2.0 ml grinding tube

AS-13011-04: 5.0 ml grinding tube

AS-13011-05: $\Phi 1.4$ mm ceramic beads

AS-13011-06: $\Phi 2.8$ mm ceramic beads

AS-13011-07: $\Phi 3$ mm metal beads

AS-13011-08: $\Phi 6$ mm metal beads

AS-13011-09: $\Phi 0.2$ mm glass beads

AS-13011-10: $\Phi 0.5$ mm glass beads

AS-13011-11: $\Phi 1.0$ mm glass beads

AS-13011-12: $\Phi 3.0$ mm glass beads

AS-13011-13: $\Phi 1.4$ mm metal beads

AS-13011-14: $\Phi 4.0$ mm metal beads

AS-13011-15: Φ 2.8 mm zirconium carbonate