

HomoFast-24 Homogenizer

Cat No: HOM-M-24

MOLEQULE-ON[®]



Description

HomoFast-24 Homogenizer by MOLEQULE-ON provides effective, fast and reproducible method to homogenize a wide range of samples, including animal, plant, human cells, micro-organisms (bacteria, yeast, fungi), spores, drugs, polymers, lotions, soil, sediments, swabs, feces, bones, brain, tumors, seeds and roots. The powerful processing force of the machine can convert very hard samples like bones or cartilage into an amorphous form. The integrated form of DNA, RNA, Proteins, Enzymes can be obtained by using HomoFast-24. Different kinds of lysing beads can be used in disposable tubes depending on the sample type.

Features

- The powerful speed range from 2430-4260 rpm can crush any sample.
- HomoFast-24 can homogenize 24x2ml or 12x5ml tubes simultaneously.
- Easy to fix sample tubes.
- Can monitor the disruption process through the clear lid.
- The use of disposable tubes minimizes the risk of cross-contamination.
- Provides high yield and quality homogenization usually in less than 35 seconds.
- 50 programmable memory settings and user optional condition settings.
- “3D Rotating High Speed Motion” for quick disruption of those fibrous tissues and resistant cells.

Applications

This unit can greatly help in methods involving genomic DNA, RNA or recombinant protein as a starting material.

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

Specifications

Parameters	HomoFast-24
Display	OLED
Linear Speed	4.00m/s~7.00m/s, Increased by step 0.05m/s.
Rotate speed	2430rpm-4260rpm, increased by 10rpm.
Cycle duration	1s~ 1min30s, Increased by step 1s.
Pause	1s~ 2min, Increased by step 1s.
Ambient temperature	5°C ~ 35°C
Relative humidity	≤70%
Number of Cycles	10
Programs	50
Sample Size	24 x 2ml tubes/12 x 5ml tubes
Acceleration time	<4s
Deceleration time	<4s
Noise	<70 db
Power	500W
Dimension (WXDXH)	280mm×360mm×385mm
Weight (kg)	25.0kg