

microplate centrifuge with instantaneous centrifugation

Microplate centrifuge is a high-efficiency centrifugal equipment specially designed for PCR experiments, which is mainly used for rapid separation of wall hanging liquid or other liquids in PCR tubes.

Microplate Centrifuge

Main Features

1. Strong compatibility: Handles 0.2ml PCR tubes, 8×0.2ml PCR strip rows, 96-well & 384-well PCR plates—skirted or non-skirted.
2. Convenient operation: Point and timing modes for flexible, efficient workflows.
3. Fast acceleration/braking: Reaches full speed in 10 seconds; stops in 4 seconds—minimizes waiting time.
4. Efficient wall liquid removal: Optimized centrifugal force ensures rapid removal of wall liquid for accurate PCR results.
5. PCR amplification enhancement: Designed to improve PCR amplification efficiency and experimental reproducibility.
6. Dual plate installation: Supports simultaneous use of two microplates—boosts throughput.



7. Low noise, maintenance-free: DC brushless motor for quiet operation and reduced maintenance costs.
8. High speed: Rotational speed up to 2800 rpm.

Working Principle

DC brushless motor drives rapid rotation, generating centrifugal force to move liquid from microplate walls to the well bottom. Quick acceleration and braking ensure complete liquid settling and efficient centrifugation.

Advantages

1. Fast, efficient sample processing—shortens experiment time.
2. Low noise and maintenance-free—ideal for busy labs.
3. Multi-functional compatibility—fits various PCR plate types.
4. Enhances PCR performance—optimizes amplification reliability and accuracy.

Application Areas

1. Molecular biology: PCR, gene amplification, DNA/RNA extraction, high-throughput sample processing.
2. Medical/clinical testing: Supports accurate PCR-based diagnostics and analysis.
3. Drug research: High-throughput screening, molecular biology experiments in pharmaceutical R&D.
4. Environmental/food testing: Microorganism extraction and analysis for safety and monitoring.

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Model	C20
Speed range	2200rpm to 2800rpm
relative centrifugal force	600xg
Acceleration	≤10 seconds
Acceleration and deceleration	≤4 seconds
Instant	yes
Timer	15 seconds to 1 minute 59 seconds
Motor type	brushless dc motor
Display screen	LCD
Safety	Open lid shutdown
Capacity	two standard pcr microplates
Power supply	11Vac to 220Vac,50-60Hz, 45W

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Model	C20
Dimensions	260x240x226mm
Weight	3.3kg