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MSC-2P, Centrifuge/Vortex for PCR plates

DESCRIPTION

MSC-2P is a compact sized digital centrifuge intended to collect droplets, mix reagents and collect once more for improved PCR yield in subsequent analysis. The combination of spin-mix functions ensures fast operation, thorough mixing and repeatable results. Centrifuge rotor can accommodate 2 unskirted PCR plates at the same time, thus saving time considerably.

MSC-2P is possible to operate in 4 independent modes:

- Centrifuge — Max. 1500 RPM
- Vortex — soft, medium, hard
- Centrifuge/Vortex — combined two motion types
- Spin-mix-spin algorithm — up to 10 cycles

The spin-mix-spin algorithm (SMS-algorithm) is designed to collect (or reset) micro volumes of reagents to the bottom of the PCR plate tubes (the first centrifugation or spin), then vortexing (mix) and re-collecting reagents (repeated spin) from the walls and cover. This repetitive algorithm of operations, aimed at reducing sample preparation errors, we call the SMS algorithm.

SPECIFICATIONS

SMS-cycle regulation	1 - 10 cycles
Speed regulation range	1000–1500 rpm
Max. RCF	100 x g
Setting resolution	100 rpm
Display	LCD, 2 x 16 signs
Centrifugation mode time range	0–30 min (increment 1 s; after 1 min - 1 min)
Vortex mode time range	0–20 sec (increment 1 sec)
Overall dimensions (W×D×H)	140 × 170 × 223 mm
Weight	1.9 kg
Input current/power consumption	24 V, 1 A / 24 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V