



**Centrifuge mixer | Product Introduction**

Centrifuge mixer SCM-4K integrates centrifugation and mixing in one step, with multiple operating modes for flexible carrier selection, significantly improving PCR laboratory throughput and ensuring uniformity between wells.

Variable-speed centrifuge vortex mixer, compact design, high cost-effectiveness. Programs set centrifugation and mixing operations, suitable for centrifuge vortex mixing of multiple microtubes and 0.2ml strip tubes. Using rotate-mix-rotate technology, sample processing cycles are automatically performed through programming, capable of simultaneously handling 12 2ml tubes, saving time significantly and eliminating the hassle of transferring to other equipment for vortexing after each centrifugation.

**Product Application**

Life Sciences — Basic research purposes (PCR diagnostic tests), used in microbiology, biochemistry, clinical trials, and industrial biotechnology laboratories.



**Test Report**

Detection channel	Centrifuge only without mixing	LAWSON SCM-4k mix + centrifuge
Fam channel		
Vic channel		
Rox channel		
Cy5 channel		

**Notes: Experimental Overview**

Experimental System: PFM5071 lyophilized powder;

Template: Human genome quadruple amplification detection, 24T/group;

Experimental Procedure: 50°C, 2min; 95°C, 5min; 50 cycles (95°C, 10s; 55°C, 40s).

### Test Data

Detection channel	Group information	Centrifuge only without mixer	SCM-4k 10 cycles of mixer + centrifuge
Fam channel	Average Ct value	30.81	30.34
	Ct Cv%	0.89	0.55
Vic channel	Average Ct value	31.89	31.62
	Ct Cv%	1.05	0.63
Rox channel	Average Ct value	38.80	36.85
	CtCV%	2.17	1.09
Cy5 channel	Average Ct value	31.57	30.86
	Ct Cv%	1.20	0.36

### Product Features

- Polarized shutdown, induction cover protection
- Graded locking, convenient operation
- Compound knob, intelligent one-button operation
- Optional rotor replacement to accommodate various microtube sizes and 0.2ml strip tubes
- Vortex mixing mode with low, medium, and high options



### Related Accessories

Carrier	Adapter Specifications
8-tube carrier	0.2ml32 holes (8-tube) + 1.5/2ml4 holes
1.5/2ml centrifuge tube carrier	1.5/2ml*12 holes



### Technical Parameters

Model	SCM-4K
Centrifuge Speed	15004000rpm
Speed Adjustment	100rpm
Operation Modes	Centrifuge, mix, centrifuge + mix
Mixing Intensity Levels	Strong, Medium, Gentle
Compatible Carriers	8-tube carrier, 1.5/2mL centrifuge tube carrier
Carrier Locking Method / Locking Force	Quick-release knob / Multi-level
Program Memory	Yes
Program Cycle Number	1999
Lid Shutdown	Inductive
Abnormal Vibration Shutdown	Yes
Power Adapter Input	AC 100~240V, 1.4A, 50/60Hz
Maximum Input Power	60W
Dimensions	218mm x 234mm x 136mm
Weight	≤1.5kg