

Full Automatic Molecular Genetic Diagnostic POCT

LabGenius



LabGenius is full automatic molecular genetic diagnostic device as Point of care testing. **LabGenius** is magnetic bead based composed a part of nucleic acid extraction and real time genetic amplification. *S/W* is easily applicable, and after installing sample loaded cartridge, press the start button to confirm the result.

Since it is full automatic system, no special skill or knowledge about molecular genetic method is required for accurate and rapid detection. With four channels, various wavelength of fluorescent dye can be measured(analyzed) simultaneously, so multiple targeted detection is possible. It is small(compact in) size and light weight so it is easy to stall.

Specification

Physical Specification

Dimension (W x D x H) 123 x 266 x 241.5 mm

Weight 8.5Kg

Operation Specification

Channel 4

Temperature range 25~100°C

Ramp rate 7~12°C/sec (heating)
3°C/sec (cooling)

Temperature accuracy / uniformity ±1.0°C / ±1.0°C

Input volt / Power consumption AC 200V / 30W

Light source Min. measurable range <10 nM

Cartridge Single-use disposable cartridge (polypropylene construction)



Lightbeam source of channels

Channel	Excitation	Emission	Calibrated Reporter Dyes
1	450-490	510-525	FAM
2	510-550	545-585	HEX, VIC
3	550-590	595-635	ROX
4	610-650	645-685	CY5

Characteristics

- 1 Full-automatic system (Sample to Result)
- 2 Compact and light, saving space.
- 3 Non-professionals can easily operate & detect.
- 4 Fast and accurate temperature changes enable rapid testing.

Experimental process

