

Molecular Diagnostics Device

분자진단기기

TPC BIO Mechatronics



RT(Real Time)-
PCR



Magnetic Bead
Separation

유전자 자동 추출장비

Under development
All in One Auto PCR

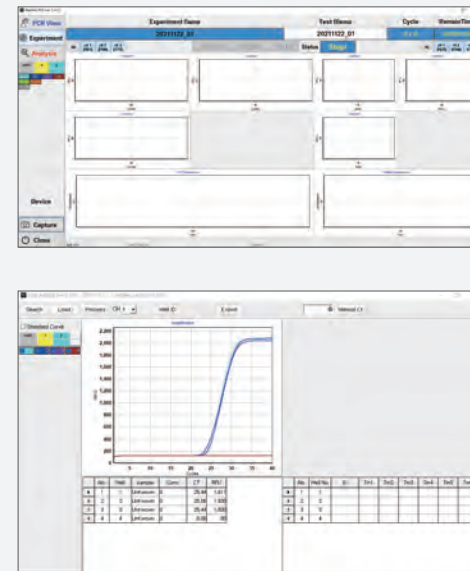




Real Time PCR (Portable) GenScan RTP-16

- ✓ ISO 13485 (의료기기품질관리) 인증
- ✓ 1광원 1Detection (크로스토크 없음)
- ✓ 4채널 Multiplex (Covid19+ 일반독감 동시검사 가능)
- ✓ 진일보한 모듈형 광학계 적용

- MFDS(식약처) 품목허가 추진중 (2022년 하반기 예상)
- 16 Sample at one run
- PCR tube side scan detection system
- Faster ramp rate(3.5°C/sec)
- Excellent Temperature accuracy & uniformity (Real Sample Temp)
- Multiplex : 2~4 (up to 4ch)
- 1 Light 1 detector optic system
- No cross talk
- Easy-to-use Interface (PC base operation)
- Optic self Calibration available



Magnetic Bead Separation GenExtractor - 32A

- ✓ ISO 13485 (의료기기품질관리) 인증
- ✓ Standard Deep Well Plate (Open Platform) 적용
- ✓ 합리적인 가격 (외산대비 70%), 높은 성능

- MFDS(식약처) 신고 등록 진행중(2022년 하반기 예상)
- Magnetic bead Separation technology
- 32 sample at one run
- Pre-filled cartridge (deep well plate)
- 30 minute processing time (normal protocol)
- 7" touch screen
- UV lamp sterilization
- LED display of running status
- Pre programmed and user operation protocol
- Easy-to-use UI
- Application : Blood, cell, Tissue, stool, Genomic DNA micro(게놈 및 미토콘드리아), Plant

Specifications

Description	Spec.	Description	Spec.
Optical Light	High power LED	Detector	Photodiode
Heating/cooling model	Peltier / Air	Sensitivity of Detection	10 ^{^1} Copy
Ramping rate (Max)	3.5°C/sec	Multiplexing	F1: SYBR Green / FAM F2 : HEX/VIC/JOE F3 : ROX/TEXAS RED F4: Cy5, LC Red
Thermal Uniformity	± 0.1°C	Sample linearity	R2 = 0.9992
Thermal accuracy	± 0.3°C	Net weight	6.0kg
Sample Repeatability	Ct value CV 1.0%	PC operating system	Win 10
Temperature range	RT ~ 110°C	Power supply	200~220 VAC
Sample format	16well (Strip tube)	Fluorescent Reading	Scan type
Reaction Volume	15 ~ 40ul	Dimensions	274 × 280 × 145 (mm) (W × D × H)

Specifications

Description	Spec.	Description	Spec.
Reagent	Pre-filled Cartridge	User Interface	7.0" LCD Touch screen
Throughput	Up to 32 samples	Program Update	USB
Sample Volume	200uL ~ 1,000uL	Dimension	410X430X410 (WXDXH)
Elution Volume	80uL ~ 120uL	Weight	25Kg
Prevent Contamination	UV Lamp	Electrical	100~220V, 50/60Hz
Safety Door	Default	Elution volume	100ul