



SLAN®-96P Real-time PCR system

glow your Real-time PCR potential!

● 효율성을 극대화한 Dual 48/48 reaction block

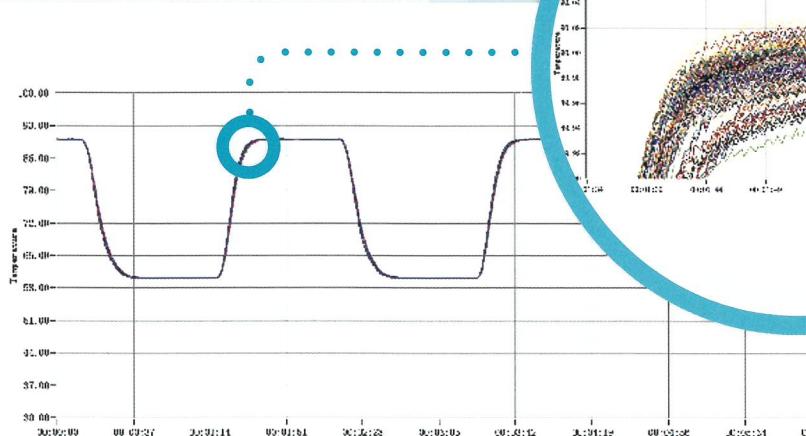
individual operation 소프트웨어를 이용한 개별적인 구동기능

● Temperature accuracy

96 Wells 간 temperature CV \pm 0.1°C 이하

● 차세대 온도조절기술

High resolution Melting curve 제공



{ Partial enlarged plot of SLAN-96P's temperature curve shows temperature uniformity cross 96 wells within $\pm 0.05^\circ\text{C}$ }

향상된 형광감지시스템

- Parameters의 실시간 통제를 통한 실용적이고 calibration 필요 없는 시스템
- side signal detection system으로 노이즈제거 및 효과적인 형광 신호 감지
- 다양한 color의 증폭곡선 제공(사용자 편의성 극대화)
- Background covering system을 통한 검사의 재현성 증대
- maintenance 필요없는 long life, high optical quality LED 사용
- background calibration 필요없음.
- edge effect 를 제거한 혁신적인 optical light-path 디자인과 균일한 형광 강도로 Reference calibration이 필요 없음
- 하드웨어가 구동 시 gain 값을 자동으로 계산하여 추가 셋팅이 필요 없음
- optical filter combinations으로 FAM, HEX, ROX, CY5 채널 사이에 crosstalk 현상 없음

● 구동시간 단축

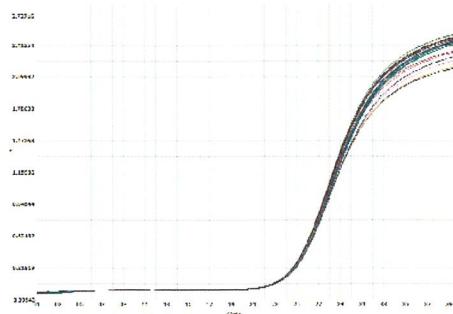
- 4.5°C/sec의 매우 빠른 heating/cooling rate을 가진 thermal design

● 6plex real-time PCR

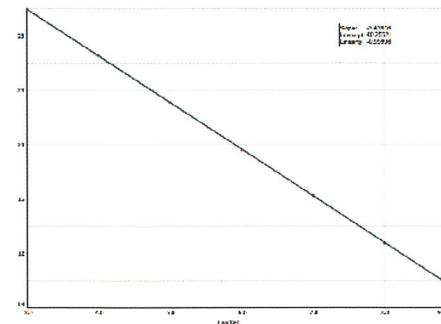
- 6-color multiplexing real-time reading capacity를 가짐

● HRM study을 위한 thermal performance

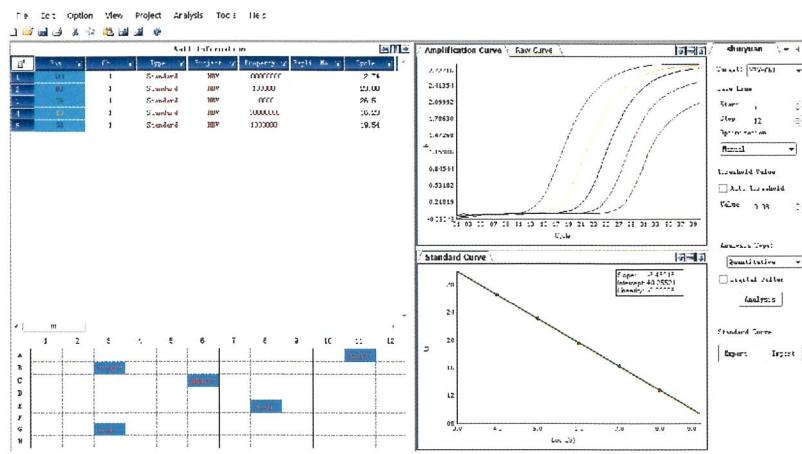
- Rapid optical detection system 으로 유전자 스캔을 30분에 가능
- 향상된 하드웨어와 소프트웨어 알고리즘으로 calibration 없이 정확하고 정밀한 결과 생성



{ Reproducibility across 96 wells:CV<0.5% }



{ Correlation coefficient:-0.99996 }



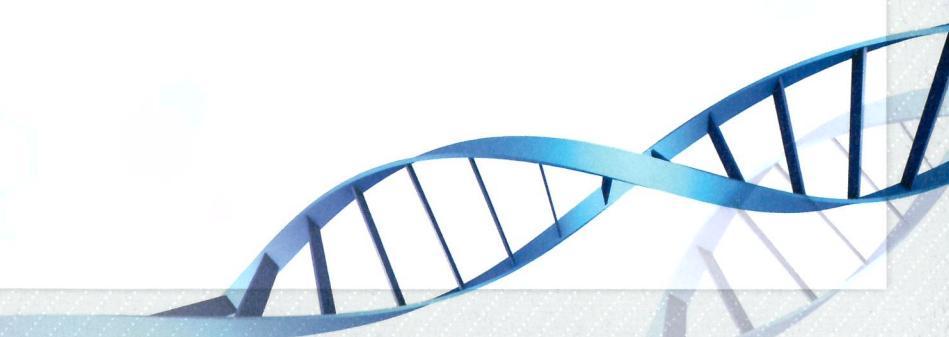
{ SLAN-96P multi-tasking software interface (analysis screen) }

● Specification(better than competitor)

- Correlation coefficient:-0.999~1.000
- Reproducibility: CV<0.5%
- Sensitivity: detection of one starting template copy
- Broad dynamic range: 100 ~1010 copies
- High resolution: easily discriminates between 500 and 1000 copies

● 강력하고 손쉬운 multitasking software 제공

- 다양한 method 적용: Quantification/Qualification, Allelic Discrimination, Melting Curve analysis, Relative Quantification, HRM, Isothermal Amplification
- protocol manager를 통해서 쉽고 간편하게 protocol을 구성
- 사용자 편의성을 높인 멀티기능의 소프트웨어 인터페이스
- Rule 기능으로 쉬운 interpretation 가능
- 간단하게 import and export 가능



Specifications

Product model	SLAN-96P
Sample capacity	96 wells (dual 48/48 reaction module)
Sample size	15 - 50 µL
Consumable	0.2ml PCR tubes, 8-tube strips, 48-well plates
Parallel running mode	dual reaction blocks/running 2 tests independently
Temperature range	4-99°C
Max ramp rate	45°C /s
Temperature accuracy	+/-0.1°C
Temperature uniformity	+/-0.1°C
Thermal cycling system	Peltier-based system
Temperature control mode	tube control/ block control
Light Source	LED (maintenance-free)
Detector	high sensitivity photoelectric sensor
Sensitivity	1 copy
Reproducibility	CV<0.5%
Correlation coefficient	-0.999 to -1.000
Linearity range	10 ⁰ ~10 ¹⁰
Resolution	can discriminate between 500 copies and 1000 copies
Excitation	CH1 470nm CH2 530nm CH3 580nm CH4 630nm CHS/CH6 custom-made
Emission	CH1 510nm CH2 565nm CH3 620nm CH4 665nm CH5/CH6 custom-made
Dyes and probes	CH1 FAM™/SYB R Green® CH2 VIC®/HEX/JOE™/TET CH3 ROX/Texas Red® CH4 CY™
Software application	Absolute Quantification (AQ), Positive/Negative, Allelic Discrimination (TaqMan® endpoint method), Melting Curve analysis (FRET), Relative Quantification (RQ)/Gene expression analysis, High Resolution Melting Curve analysis, Isothermal Amplification
Hot-lid	30-106°C (default 105°C, adjustable) electronic automatic hot-lid
Power supply	220~240VAC, 50/60Hz
Power consumption	850VA
Computer requirement	1GB RAM, CPU 1.5GHz
Dimensions	38cmx52cmx25cm (WxDxH)
Weight	18Kg
Operation system	Windows XP, Vista, Windows7
Communication	RS232, USB