PCR Cycler Check™
qPCR Cycler Check™

PCR / qPCR Cycler Validation

- ✓ Easier, faster and cost-effective
- ✓ In accordance with the international regulatory requirements of ISO 17025, EN 45001, ISO 13485, ISO/TS 20836:2007, GLP, GMP, IQ/OQ/PQ, etc.
- ✓ Validation of conventional PCR cyclers and block- or air-heated qPCR cyclers
- ✓ Lyophilized, temperature-stable components

PCR Cycler Check™ & qPCR Cycler Check™

Background & Principle

False negative PCR results and unspecific amplifications are highly critical for Good Laboratory Practice (GLP) and can be caused by a defective PCR cycler.
Verification of the correct temperature control of the equipment in-use is generally a strenuous task and compliance of PCR cyclers to international legal requirements is not easy to achieve.
Although commercially available temperature sensors or verification/calibration services can usually measure temperature uniformity in a cycler block, this measurement does not necessarily reflect all critical parameters for the accurate functioning of the cycler. Only a reference setup can investigate all relevant parameters of the process reliably.

PCR Cycler Check™ and qPCR Cycler Check™ kits are specifically designed for the verification of conventional PCR cyclers and block or air-heated qPCR cyclers, respectively, as part of the installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ) as required by various international norms.

PCR Cycler Check™ and qPCR Cycler Check™ kits provide temperature-sensitive PCR reactions to monitor an upper and lower temperature range in one run. The primers and probes sequences and the PCR protocol were designed to be extremely sensitive to fluctuations in temperature and homogeneity, precision of the temperature control and timing.

Amplification will be altered when temperature deviates of more than 2 °C from the set value. Cycler performance is tested with typical PCR settings to reflect most users' applications. As an additional indicator of the accurate temperature control of the cycler, the included pre-adjusted target concentrations are only amplified by highly efficient PCRs.

Features

Product	PCR Cycler Check™ Advance & PCR Cycler Check™ OneStep	qPCR Cycler Check™
Recommended Use	Validation of all conventional PCR thermal cyclers, for research use only	Validation of any qPCR cyclers with FAM™ and ROX™ filters, for research use only
Kit Components	Freeze-dried validation reaction vials, rehydration buffer, marker	Freeze-dried validation mix, rehydration buffer, control reaction mix (The probes of each amplification system are labeled with fluorescent dyes FAM™ and ROX™ to allow individual evaluation of each temperature range.)
Storage	+2 to +8 °C	+2 to +8 °C

Benefits

- No extra equipment or software needed.
- Applicable to any PCR or qPCR cycler used in a research or industrial quality control lab to test instrument performance and reliability.
- Include all reagents needed for the reaction: freeze-dried primer/probe sets, target DNA, polymerase, nucleotides, and rehydration buffer.

Ordering Information

Catalog Number	
Cat. No. 57-2102	PCR Cycler Check™ Advance (6 strips, 8 reactions each)
Cat. No. 57-2103	PCR Cycler Check™ OneStep (100 reactions)
Cat. No. 57-2202	qPCR Cycler Check™ (100 reactions)

How to order
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