

PCR Cyclers Validation



- PCR/qPCR thermal cycler validation systems according to international legal requirements: ISO 17025, EN 45001, ISO 13485, ISO/TS 20836:2007, GLP, GMP, IQ/OQ/PQ, etc.
- Applicable to conventional PCR cyclers and block or air-heated qPCR cyclers
- Lyophilized temperature-stable components
- Easy, fast, and affordable approach to check your PCR cycler

PCR Cyclers Validation Kits

Background

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 Cyclers Check™ and qPCR Cyclers 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.

Principle

PCR Cyclers Check™ and qPCR Cyclers 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 & 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.

PCR Cyclers Check™

Recommended Use	PCR Cyclers Check™ Advance and PCR Cyclers Check™ OneStep kits for traditional thermal cycler validation. For research use only.
Kit Components	Freeze-dried validation reaction vials, rehydration buffer, marker.
Cyclers	All conventional PCR thermal cyclers.
Storage	+2 to +8 °C



qPCR Cyclers Check™

Recommended Use	qPCR Cyclers Check™ for qPCR thermal cycler validation. For research use only.
Kit Components	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.
Cyclers	Any qPCR cycler with FAM™ and ROX™ filters.
Storage	+2 to +8 °C



Ordering Information

PCR Cyclers Check™ Advance	Cat. No. 57-2102	6 strips, 8 vials each
PCR Cyclers Check™ OneStep	Cat. No. 57-2103	100 reactions
qPCR Cyclers Check™	Cat. No. 57-2202	100 reactions

How to order

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