

# IN QUALIFICATION WE TRUST!

A close-up photograph of a person wearing blue nitrile gloves using a blue pipette to add liquid to a multi-well PCR plate. The plate is held in a blue rack. The background is a blurred laboratory setting with white equipment.

## PCR Cyclers Validation

Validation tools for testing PCR thermal cyclers according to legal requirements  
ISO 17025, EN 45001, ISO 13485, ISO/TS 20836:2007, GLP, GMP, IQ/OQ/PQ, ...

# PCR Cyclyer Check™ Kits

False negative PCR results are highly critical and might be caused by a defect PCR cyclyer. Verification of the correct temperature control of the used equipment is usually a stressful issue. To comply with quality management systems is not easy to fulfill for PCR cyclyers.

## Principle

The PCR Cyclyer Check provides temperature sensitive PCR reactions to monitor an upper and lower temperature range in one run. The primer sequences in the traditional thermal cyclyers respectively the primer/probe sequences in the PCR Cyclyer Check for qPCR thermal cyclyers in combination with a regular PCR protocol were designed to react extremely sensitive to incorrect temperature control, temperature homogeneity, precision and timing. Amplification will completely drop out at temperature differences of more than 2 °C. The cyclyer performance is tested at standard PCR settings to reflect most users applications. In addition, the pre-adjusted target concentrations are only amplified at high PCR efficiencies as an additional indicator for accurate temperature control of the thermal cyclyer.

## Benefits

- No extra equipment, instrument or software needed.
- Applicable with any block PCR cyclyer or qPCR cyclyer used in a research or industrial quality assurance lab for the reliability testing of instrument performance and reliability.
- In the qPCR Thermal Cyclyer Validation Kit the probes of each amplification system are labeled with different fluorescent dyes (FAM™ and ROX™) to allow individual evaluation of each temperature range.
- Includes all you need: Freeze-dried primer/probe sets, polymerase, nucleotides and rehydration buffer

The PCR Cyclyer Check available for both conventional endpoint PCR and real-time PCR (qPCR) cyclyers.

Cat. No. 57-2102	PCR Cyclyer Check™ Advance for Traditional Thermal Cyclyer Kit (6 strips, 8 vials each)
Cat. No. 57-2103	PCR Cyclyer Check™ OneStep for Traditional Thermal Cyclyer Kit (100 reactions)
Cat. No. 57-2202	qPCR Cyclyer Check™ for qPCR Thermal Cyclyer Kit (100 reactions)



# Color Compensation Kit

For real-time PCR (qPCR) thermal cyclyers.

## Description

As real-time qPCR cyclyers may vary in their fluorescence detection sensitivity, color compensation experiments must be performed on each specific multiplex PCR instrument. The Color Compensation Kit is designed for generating color compensation files on qPCR cyclyers to allow proper interpretation of multiplex experiments. To generate a color compensation object, the labeled calibration dyes are used in an initial color compensation run. The calibration dyes contain labeled oligonucleotides for the determination of crosstalk corresponding to each individual dye being used in a multiplex assay, and a blank reaction buffer without dye for the determination of background fluorescence of the buffer. The result evaluation is performed by measuring the fluorescence signal with your qPCR cyclyer.

## Kit Components

- Freeze-dried calibration dye (10 calibrations, 25 µl each)
- Rehydration Buffer



Cat. No. 57-0110	FAM™, ROX™ and VIC®	Cat. No. 57-0510	VIC®	Cat. No. 57-0910	CY-5™
Cat. No. 57-0210	FAM™	Cat. No. 57-0610	SYBR® Green	Cat. No. 57-1010	Texas Red®
Cat. No. 57-0310	TAMRA™	Cat. No. 57-0710	JOE™		
Cat. No. 57-0410	ROX™	Cat. No. 57-0810	CY-3™		