

# Traditional Thermal Cycler Validation Kit



## Features

Type of Thermal Cycler	Traditional, block heating, thermal cyclers
Description	False negative PCR results are highly critical and might be caused by a defect PCR cycler. Verification of the correct temperature control of the used equipment is essential. The Traditional Thermal Cycler Validation Kit provides temperature sensitive PCR reactions to monitor an upper and lower temperature range in one PCR reaction. The primer sequences and the PCR protocol were designed to react extremely sensitive on fluctuations of more than 2 °C within the cycler protocol with a drop out of amplification. This way the temperature homogeneity, the precision of the temperature control and the timing can be verified. 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 cycler.
Recommended Use / Scope	Applicable with any block PCR cycler in research or industrial quality assurance lab in order to fulfill legal requirements for the reliability testing of instruments used for analysis (ISO 17025, EN 45001, ISO 13485, GLP, GMP).
Kit Components	Lyophilized primer sets, polymerase and nucleotides Rehydration Buffer
Package Sizes	Cat.-No. 57-2102    2 verifications
Result evaluation	Gel electrophoresis at endpoint of PCR
Required Consumables	PCR reaction tubes Reagents for agarose gel electrophoresis
Required lab devices	Tube centrifuge Pipetting equipment PCR cycler Agarose gel electrophoresis and documentation system
Shelf Life and Storage	Components are maintainable at +2 to +8 °C for at least 6 months. After rehydratisation the reagents must be stored at -18 °C