

Thermal Cycler Colour Compensation Kit



Features

Type of PCR	Real-time PCR (qPCR) thermal cyclers with optical unit
Description	The Color Compensation Kit is designed for generating color compensation files on qPCR cyclers 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.
Recommended Use / Scope	As real-time qPCR cyclers may vary in their fluorescence detection sensitivity, color compensation experiments must be performed on each specific multiplex-PCR instrument. In the case of overcompensation or remaining crosstalk it is recommended to adjust the calibration dye concentration used for performing the color compensation experiment to result in an equal level of (absolute) fluorescence signal.
Kit Components	Calibration dyes for 3 different wavelengths (FAM, ROX and VIC), lyophilized Rehydration Buffer
Package Sizes	Cat.-No. 57-0010 10 calibrations (25 µl each)
Result evaluation	Measuring fluorescence signal with PCR cycler.
Required Consumables	PCR reaction tubes
Required lab devices	Tube centrifuge Pipetting equipment qPCR cycler with filters for the detection of FAM, ROX and VIC dyes
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