Product Information

ROX Reference Dye, 25 µM in TE Buffer

Catalog Number: R2012

Product Size: 1 mL

Application Scope: Real-time PCR Reference Dye

Parameters

Ex/Em: 568/591 nm

Storage

Store at -20°C for a long time, protect from light and avoid repeated freeze-thaw. Short-term use can be stored at 4 °C. Expiration date marked on the outer packing.

Description

ROX reference dye is used to normalize well-to-well variations that may occur during quantitative, real-time PCR reactions. The concentration of ROX reference dye is different for different instruments. Our company provides ROX reference dye storage solution with a concentration of 25 $\mu M,$ which users can add according to the recommended concentration of the instrument.

ROX Reference Dye

- Normalize PCR-independent fluorescence fluctuations
- Provide stable baselines for multiplex quantitative PCR and RT-PCR
- Use existing ROX spectral settings without the need to repeatedly calibrate the thermal cycler

Notes

- 1. In order to add 0.1 μL accurately for each reaction, it is recommended to dilute ROX with water before use, and then perform experimental protocol.
- 2. There are quenching problems with fluorescent dyes. Please try to avoid light to slow down the fluorescence quenching.
- For your safety and health, please wear lab clothes and disposable gloves.

Recommended final concentrations of ROX for different instruments:

Instrument	ROX per 50 μL PCR Reaction	Final Concentration
ABI PRISM		
7000/7300/7700/7900HT	1.0 μL	500 nM
and 7900HT Fast, ABI Step One,	(0.6-1.0 μL)	(300-500 nM)
ABI Step One Plus		
ABI 7500, 7500 Fast, Stratagene		
Mx3000P, Mx3005P, Mx4000, MJ	0.1 μL	50 nM
Research Chromo4, OPtcon(II),	(0.06-0.1 μL)	(30-50 nM)
Corbet Rotor Gene 3000		

