

## ROX Reference Dye

**Cat. no.** 12223-012      **Size** 500 µL      **Store at** -30°C to -10°C  
**Pub. Part no.** 12223012.pps      **MAN0001050**      **Rev. Date** 27 Jan 2012

### Description

ROX Reference Dye provides users of the ABI PRISM® 7700 an effective alternative for normalization of fluorescent reporter signal in real-time quantitative PCR or RT-PCR without modifying the instrument's default analysis parameters. ROX Reference Dye is supplied at 50X concentration. It is composed of a glycine conjugate of 5-carboxy-X-rhodamine, succinimidyl ester (25 µM) in 20 mM Tris-HCl (pH 8.4), 0.1 mM EDTA, 0.01% Tween® 20. It may be used with Platinum® Taq DNA polymerase (10966-018), Platinum® Quantitative PCR SuperMix-UDG (11730-017), Platinum® Quantitative RT-PCR ThermoScript™ One-Step System (11731-015), and SuperScript® One-Step RT-PCR with Platinum® Taq (10928-034).

ROX Reference Dye should be stored in the dark at either -30°C to -10°C or 2°C to 8°C. Storage at 2°C to 8°C avoids the necessity of thawing the solution before assembling the PCR.

ROX Reference Dye is stable at room temperature for several weeks.

Component	Amount per tube
ROX Reference Dye	500 µL

### Protocol

Set up quantitative PCR / RT-PCR reactions according to the protocol provided with each PCR reagent system. Multiple reactions MUST be assembled as a master mixture.

Include 1 µL of ROX Reference Dye for each 50-µL PCR. Adjust volumes as appropriate to account for addition of the reference dye. Mix thoroughly prior to addition to the master mixture.

**Intended Use:** For research use only.

Not intended for any animal or human therapeutic or diagnostic use.

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## ABI PRISM® 7700 Instrument Settings

For TaqMan® probes, use the default instrument settings of “passive reference” as ROX and “quencher” as TAMRA.

For alternative fluorogenic detection chemistries, adjust “quencher” settings accordingly

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