

CYPC38-CHANGYU ROX Reference Dye

Contents	CYPC3801	CYPC3802
ROX Reference Dye (50 $\mu\text{mol}/100\times$)	25 μl	100 μl

Note: All reagents, when stored at $-20\text{ }^{\circ}\text{C}$, are stable for at least 12 months.

Description

ROX Reference Dye is typically used on Real Time PCR amplification instruments from companies such as ABI and Stratagene to adjust the difference between PCR tubes and tubes due to PCR sampling errors. Different instruments vary in different ROX Reference Dye concentration. ROX Reference Dye stock solution provided by CHANGYU Biotechnology is at a concentration of 50 μmol (100 $\times$). And the final reaction concentration is generally 500 nmol (1 $\times$, high) or 50 nmol (0.1 $\times$, low) depending on the different instrument researchers used. The user can add to the fluorescence quantitative PCR reaction system according to the recommended concentration of the instrument.

Different instruments recommended ROX final concentration (50 μl reaction system)

Instrument	ROX (100 $\times$) Per 50 μl PCR Reaction	Final Concentration
ABI PRISM 7000/7300/7700/7900HT and 7900HT Fast, ABI Step One, ABI Step One Plus	0.5 μl	1 $\times$
ABI 7500, 7500 Fast, Stratagene Mx3000P, Mx3005P, Mx4000, MJ Research Chromo4, Opticon (II), Corbett Rotor Gene 3000	0.05 μl *	0.1 $\times$
Roche, Bio-Rad, Eppendorf	No need to use ROX	

The volume of ROX should be subtracted from the volume of ddH₂O in the PCR reaction system.

* In order to accurately add small volumes of ROX (0.05 μl) to each reaction, it is recommended to dilute the ROX 10-20 times with water before use.

Quick usage (Adding ROX Reference Dye directly into the qPCR mix to make ROX-fluorescence quantitative mix working fluid):

- Instruments that require high concentrations of ROX (ROX Final Concentration 1 $\times$) (see table above): Before use, add 25 μl of ROX Reference Dye to 1.25 ml of 2**

- × SYBR Green qPCR mix, mix thoroughly, and use directly.
2. Models that require a low concentration of ROX (ROX final concentration 0.1 ×) (see table above): Prior to use, add 2.5 µl of ROX Reference Dye to 1.25 ml of 2 × SYBR Green qPCR mix, mix thoroughly, and use directly.

This product is furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.