

## ROX reference dye for qPCR

<http://www.lumiprobe.com/p/rox-reference-dye>

This ROX formulation is a passive reference dye for qPCR application. The use of this dye is recommended for the normalization of fluorescence intensity of qPCR reporter dyes, such as dsGreen or TaqMan probes. It also allows to correct for pipeting errors, and instrumental drift such as change of lamp intensity output over time.

The dye contains 25  $\mu$ M solution of 5-carboxy-ROX (rhodamine-X) reference dye in 10mM Tris-HCl (pH 8.6), 0.1mM EDTA, and 0.01% Tween®-20.

ROX reference dye is compatible with all qPCR instruments with ROX channel. Most instruments require either 500 nM or 50 nM end concentration of ROX.

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### General properties

|                     |   |
|---------------------|---|
| Appearance:         | pink solution   |
| Quality control:    | functional test in RT PCR, UV-Vis abs   |
| Storage conditions: | Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. |

### Spectral properties

|                                    |     |
|------------------------------------|-----|
| Excitation/absorption maximum, nm: | 570 |
| Emission maximum, nm:              | 591 |