

HIGH AND LOW ROX (50X)

Catalog



RX101 -1, 0.5ml X 5 Vials (High Rox)
RX101 -4, 0.5ml X 5 Vials (High Rox)

RX102 -1, 0.5ml X 5 Vials (Low Rox)
RX102 -4, 0.5ml X 5 Vials (Low Rox)

High ROX (50X) and Low ROX (50X) are passive reference dyes used in real-time PCR (qPCR) to normalize fluorescence signals, ensuring accurate and reproducible results. These dyes do not interfere with amplification but help correct well-to-well variations. High ROX is suited for instruments like Applied Biosystems (ABI) qPCR systems, while Low ROX is ideal for platforms requiring lower reference dye concentrations. Both formulations are highly stable and compatible with various qPCR assays. DX/DT offers these dyes in optimized concentrations to enhance qPCR performance, supporting reliable quantification and genotyping applications.

- **High ROX Instruments** - Use the vial ROX Reference Dye (HIGH) for instruments like Applied Biosystems 7000, 7300, 7700, 7900, 7900HT, StepOne, StepOnePlus and other similar instruments which require high ROX
- **LOW ROX Instruments** - Use the vial ROX Reference Dye (LOW) for instruments like Applied Biosystems 7500, 7500 Fast Real time systems, Stratagene, QuantStudio Systems and other similar instruments which require low ROX
- **NO ROX Instruments** - Qiagen Rotor Gene, Roche LifeCycler, Biorad CFX96, CFX 384, Eppendorf MasterCycler and other similar instruments would not require ROX. However, if your master-mix already contains ROXs then also you can continue using the same without any trouble.

qPCR Example Protocol

Components	Example for 20µL reaction	
Template DNA/cDNA	1 µL	Final Concentration
Forward Primer (10µM)	0.8 µL	<100ng
Reverse Primer (10µM)	0.8 µL	0.1 - 1µM
High ROX/ Low ROX	0.4 µL	0.1 - 1µM
qPCR Mastermix(2X)	10 µL	1X (as per you requirement)
Nuclease Free Water	Upto 20 µL	1X

QUALITY CONTROL

Nuclease Test

No contamination of endo or exonucleases were detected. No contamination of RNase detected.

MORE INFORMATION

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