

Qubit™ XR Assay – RNA Standard

Catalog No. Q33236

Pub. No. MAN0017518

Rev. A.0

Product information

The Qubit™ XR (Extended Range) Assay – RNA Standard is designed for use with the Qubit™ RNA XR or Quant-iT™ RNA XR Assays. Sufficient material is supplied to perform assays for up to 1000 samples. The RNA standards are provided in multiple vials. If degradation of the sensitive RNA standard is suspected, a new vial should be used. The Qubit™ RNA IQ assay provides an error message if the large RNA standard is suspected of being degraded.

Table 1. Contents and storage

Material	Amount	Concentration	Storage*
Qubit™ XR Assay – RNA Standard	5 × 220 µL	8 µg/µL in citrate buffer	≤-70°C
* When stored as directed, the kits are stable for at least 6 months from the date of receipt.			

Materials required but not provided

- Nuclease-free citrate buffer, 10 mM, pH 6.4
- Nuclease-free pipettors and tips
- Qubit™ assay tubes (Cat. No. Q32856)

Prepare standards

For use with Qubit™ RNA XR Assay

Follow the directions below to prepare the RNA standards for use with the Qubit™ RNA XR Assay (Cat. Nos. Q33223, Q33224) for up to 1000 samples.

- 1.1 Prepare 10 mL of 1 mM of citrate buffer, pH 6.4 for use as Standard #1, 0 µg/µL. 10 µL of Standard #1 is required for a single Qubit™ RNA XR assay standard curve.
- 1.2 The Qubit™ XR Assay – RNA Standard is ready to use as Standard #2. 10 µL of Standard #2 is required for a single Qubit™ RNA XR assay standard curve.

- 1.3 Store the standards at $\leq -70^{\circ}\text{C}$ along with other kit components for up to 6 months..
- 1.4 Refer to the Qubit™ RNA XR Assay user guide (available from thermofisher.com) for detailed directions on how to use these standards with the Qubit™ Fluorometer.

For use with Quant-iT™ RNA XR Assay

Follow the directions below to prepare the RNA standards for use with the Quant-iT™ RNA XR Assay (Cat. Nos. Q33225) for up to 1000 samples.

- 2.1 Prepare 10 mL of 1 mM citrate buffer, pH 6.4 for use as the dilution buffer and the 0 $\mu\text{g}/\mu\text{L}$ standard.
- 2.2 Two vials of the RNA standard are required to prepare 160 μL of each of the RNA reference standards for the Quant-iT™ RNA XR assay as a serial dilution using the following table.

Target RNA standard concentration ($\mu\text{g}/\mu\text{L}$)	Volume of RNA standard to add	Volume of 1 mM citrate buffer, pH 6.4 to add
8 $\mu\text{g}/\mu\text{L}$	NR	NR
6.75 $\mu\text{g}/\mu\text{L}$	135	25
5.5 $\mu\text{g}/\mu\text{L}$	110	50
4.25 $\mu\text{g}/\mu\text{L}$	85	75
2.5 $\mu\text{g}/\mu\text{L}$	50	110
1 $\mu\text{g}/\mu\text{L}$	20	140
0.05 $\mu\text{g}/\mu\text{L}$	1	159
0 $\mu\text{g}/\mu\text{L}$	0	160
NR = Not required		

- 2.3 Store the standards at $\leq -70^{\circ}\text{C}$ along with other kit components for up to 6 months..
- 2.4 Refer to the Quant-iT™ RNA XR Assay user guides (available from thermofisher.com) for detailed directions on how to use these standards in a typical assay.

Ordering information

Cat. No.	Product name	Unit size
Q33236	Qubit™ RNA XR Assay – RNA Standard	1 kit
Related products		
Q33223	Qubit™ RNA XR Assay Kit, 100 assays	1 kit
Q33224	Qubit™ RNA XR Assay Kit, 500 assays	1 kit
Q33225	Quant-iT™ RNA XR Assay Kit, 1000 assays	1 kit
Q33221	Qubit™ RNA IQ Assay Kit, 75 assays *for use with the Qubit™ 4 Fluorometer*	1 kit
Q33222	Qubit™ RNA IQ Assay Kit, 275 assays *for use with the Qubit™ 4 Fluorometer*	1 kit
Q32856	Qubit™ assay tubes *set of 500*	1 set
M33089	Microplates for fluorescence-based assays, 96-well *black-walled, clear bottom*	10 plates

Documentation and support

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 - Certificates of Analysis
 - Safety Data Sheets (SDSs; also known as MSDSs)

Note: For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

Limited Product Warranty

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Revision	Date	Description
A.0	18 December 2017	New user guide



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