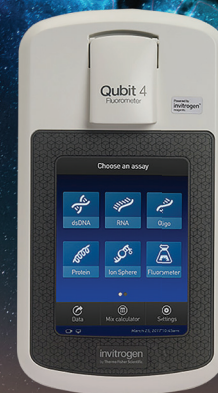


# Fast, reliable detection of viable RNA

New Qubit RNA IQ Assay



Purify DNA



Purify RNA



Quantitate



Analyze

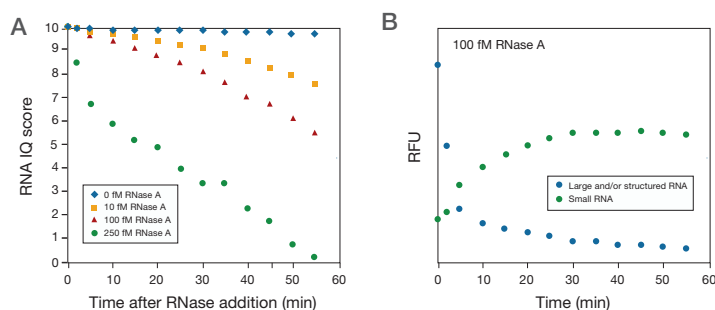
Introducing the breakthrough Invitrogen™ Qubit™ RNA IQ Assay,\* developed to quickly assess the quality and integrity of an RNA sample. This assay works by utilizing two unique dyes—one binds to large, intact and/or structured RNA, and the other selectively binds to small, degraded RNA.

The Invitrogen™ Qubit™ 4 Fluorometer and Qubit RNA IQ Assay offer the following features:

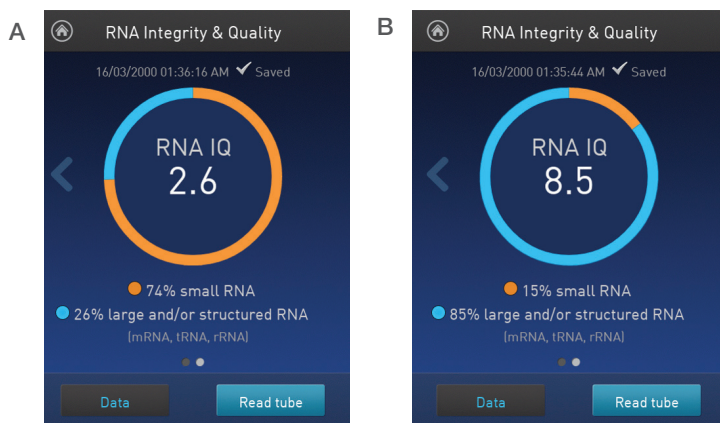
- **Convenience**—use as little as 1  $\mu$ L of sample
- **Ease of use**—simply add RNA sample to the RNA IQ working solution, then measure with the Qubit 4 Fluorometer
- **Speed**—obtain accurate measurement of RNA degradation in ~4 seconds per sample

Don't forget that the new Qubit 4 Fluorometer also offers accurate and sensitive quantitation of DNA and protein.

\* Note: The Qubit RNA IQ Assay for the detection of degraded RNA can only be run on the Qubit 4 Fluorometer and cannot be performed on the original Qubit, Qubit 2.0, or Qubit 3.0 Fluorometers.



**Figure 1. rRNA degradation by RNase A measured using the Qubit RNA IQ Assay.** rRNA degradation by RNase A was measured in real time using the RNA IQ assay, demonstrating the loss of large, structured RNA and the increase of small, degraded RNA fragments over time. **(A)** Triplicate samples of 100 ng/mL rRNA solutions were incubated with increasing amounts RNase A in the final RNA IQ assay working solution. **(B)** The 100 fM RNase A shows the increase in signal from the small-RNA dye corresponding to a decrease in the signal from the large and/or structured RNA.



**Figure 2. A proprietary algorithm is used to report a quality score representative of the ratio of small and large and/or structured RNA in the sample.** The score is a value from 1 to 10, similar to other RNA quality scores. With the Qubit RNA IQ Assay, a small number indicates that the sample consists of mainly small RNA (A), and a larger number indicates that the sample consists of mainly large RNA or RNA with tertiary structure (B).

## Ordering information

Product	Initial sample concentration	Quantitation range	Quantity	Cat. No.
<b>RNA integrity and quality kit</b>				
Qubit™ RNA IQ Assay Kit*	NA	NA	75 assays	Q33221
			275 assays	Q33222
<b>RNA quantitation kits</b>				
Qubit RNA BR Assay Kit	1 ng/μL to 1 μg/μL	20–1,000 ng	100 assays	Q10210
			500 assays	Q10211
Qubit RNA HS Assay Kit	250 pg/μL to 100 ng/μL	5–100 ng	100 assays	Q32852
			500 assays	Q32855
Qubit RNA XR Assay Kit	1 ng/μL to 8 μg/μL	20 ng–8 μg	100 assays	Q33223
			500 assays	Q33224
Qubit microRNA Assay Kit	50 ng/mL to 100 μg/mL	1–1,000 ng	100 assays	Q32880
			500 assays	Q32881
<b>DNA quantitation kits</b>				
Qubit ssDNA Assay Kit	50 pg/μL to 200 ng/μL	1–200 ng	100 assays	Q10212
Qubit dsDNA BR Assay Kit	100 pg/μL to 1,000 ng/μL	2–1,000 ng	100 assays	Q32850
			500 assays	Q32853
Qubit dsDNA HS Assay Kit	10 pg/μL to 100 ng/μL	0.2–100 ng	100 assays	Q32851
			500 assays	Q32854
Qubit 1X dsDNA HS Assay Kit	10 pg/μL to 100 ng/μL	0.2–100 ng	100 assays	Q33230
			500 assays	Q33231
<b>Protein quantitation kit</b>				
Qubit Protein Assay Kit	12.5 μg/mL to 5 mg/mL	0.25–5 μg	100 assays	Q33211
			500 assays	Q33212
<b>Instrument and accessories</b>				
Qubit 4 Fluorometer			1 instrument	Q33226
Qubit 4 RNA IQ Starter Kit			1 kit	Q33229
Qubit 4 Quantitation Starter Kit			1 kit	Q33227
Qubit 4 NGS Starter Kit			1 kit	Q33228
Qubit Assay Tubes			500 tubes	Q32856

\* Note: The Qubit RNA IQ Assay for the detection of degraded RNA can only be run on the Qubit 4 Fluorometer and cannot be performed on the original Qubit, Qubit 2.0, or Qubit 3.0 Fluorometers.

Request a demo or place an order at  
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