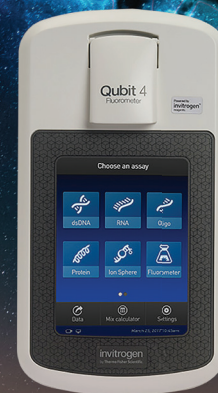


Fast, reliable detection of viable RNA

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 μ 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.

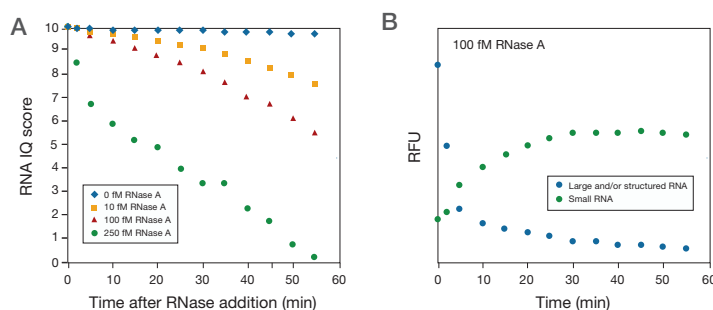


Figure 1. rRNA degradation by RNase A measured using the Qubit RNA IQ Assay. rRNA degradation by RNase A was measured in real time using the RNA IQ assay, demonstrating the loss of large, structured RNA and the increase of small, degraded RNA fragments over time.

(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.

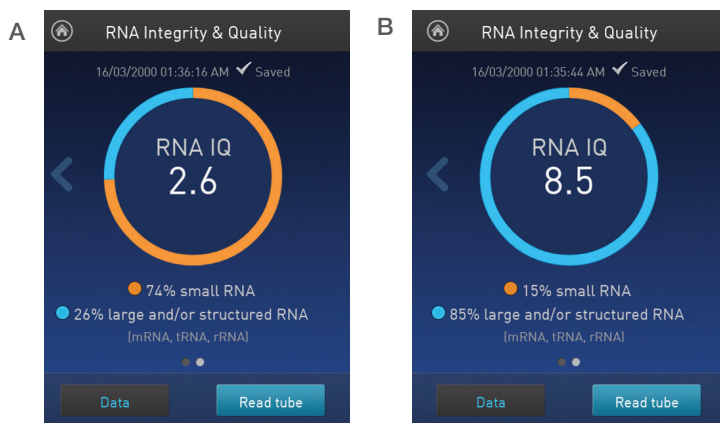


Figure 2. A proprietary algorithm is used to report a quality score representative of the ratio of small and large and/or structured RNA in the sample. The score is a value from 1 to 10, similar to other RNA quality scores. With the Qubit RNA IQ Assay, a small number indicates that the sample consists 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.
RNA integrity and quality kit				
Qubit™ RNA IQ Assay Kit*	NA	NA	75 assays	Q33221
			275 assays	Q33222
RNA quantitation kits				
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
DNA quantitation kits				
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
Protein quantitation kit				
Qubit Protein Assay Kit	12.5 μg/mL to 5 mg/mL	0.25–5 μg	100 assays	Q33211
			500 assays	Q33212
Instrument and accessories				
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
thermofisher.com/qubit

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