

Qubit™ dsDNA HS Assay – Lambda DNA Standard

dsDNA standard for Qubit™ and Quant-iT™ dsDNA HS and 1X dsDNA Assays

Catalog No. Q33233

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Rev. A.0

Product information

The Qubit™ dsDNA HS (High Sensitivity) Assay – Lambda DNA Standard is designed for use with the Qubit™ and Quant-iT™ dsDNA HS assays and 1X dsDNA assays. Sufficient material is supplied to perform standards with up to 500 samples.

Table 1. Contents and storage

Material	Amount	Concentration	Storage*
Qubit™ dsDNA HS Assay – Lambda DNA Standard	5 mL	10 ng/μL in TE Buffer	2–8°C

* When stored as directed, the kits are stable for at least 6 months from the date of receipt.

Materials required but not provided

- 1X TE buffer at pH 7.5 (10 mM Tris-HCL, 1 mM EDTA, pH 7.5)
- Nuclease-free pipettors and tips
- Qubit™ assay tubes (Cat. No. Q32856)

Prepare standards

For use with Qubit™ dsDNA HS or 1X dsDNA HS Assays

Follow the directions below to prepare dsDNA standards for use with the Qubit™ dsDNA HS (Cat. Nos. Q32851, Q32854) or Qubit™ 1X dsDNA HS (Cat. Nos. Q33230, Q33231) Assays for up to 500 samples.

- 1.1 Prepare 5 mL of 1X TE buffer, pH 7.5 for use as Standard #1, 0 ng/μL. 10 μL of Standard #1 is required for a single Qubit™ dsDNA HS assay standard curve.
- 1.2 The 10 ng/μL lambda DNA standard is ready to use as Standard #2. 10 μL of Standard #2 is required for a single Qubit™ dsDNA HS assay standard curve.
- 1.3 Store the standards at 2–8°C along with other kit components for up to 6 months..
- 1.4 Refer to the Qubit™ dsDNA HS Assay or Qubit™ 1X dsDNA HS Assay user guides (available from thermofisher.com) for detailed directions on how to use these standards with the Qubit™ Fluorometer.

For use with Quant-iT™ dsDNA HS or 1X dsDNA HS Assays

Follow the directions below to prepare dsDNA standards for use with the Quant-iT™ dsDNA HS (Cat. No. Q33120) or Quant-iT™ 1X dsDNA HS (Cat. No. Q33232) Assays for up to 500 samples.

- 2.1 Prepare 10 mL of 1X TE, pH 7.5 buffer (10 mM Tris-HCL, 1 mM EDTA, pH 7.5) for use as the dilution buffer and the 0 ng/μL standard.
- 2.2 Prepare 1.5 mL of each of the Lambda DNA reference standards for the Quant-iT™ dsDNA HS or Quant-iT™ 1X dsDNA HS assays as a serial dilution using the following table.

Initial dsDNA stock solution	Volume of Lambda DNA standard	Volume of 1x TE Buffer, pH 7.5	Final dsDNA concentration
10 ng/μL	1500	NR	10 ng/μL
10 ng/μL	1200	300	8 ng/μL
8 ng/μL	900	600	6 ng/μL
6 ng/μL	600	900	4 ng/μL
4 ng/μL	300	1,200	2 ng/μL
2 ng/μL	150	1350	1 ng/μL
1 ng/μL	75	1425	0.5 ng/μL
0 ng/μL	NR	1,500	0 ng/μL

NR = Not required

- 2.3 Store the standards at 2–8°C along with other kit components for up to 6 months..
- 2.4 Refer to the Quant-iT™ dsDNA HS Assay or Quant-iT™ 1X dsDNA HS 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
Q33233	Qubit™ dsDNA HS Assay – Lambda DNA Standard.	1 kit
Related products		
Q32851	Qubit™ dsDNA HS Assay Kit, 100 assays *0.2–100 ng* *for use with the Qubit™ Fluorometer	1 kit
Q32854	Qubit™ dsDNA HS Assay Kit, 500 assays *0.2–100 ng* *for use with the Qubit™ Fluorometer*	1 kit
Q33230	Qubit™ 1X dsDNA HS Assay Kit, 100 assays	1 kit
Q33231	Qubit™ 1X dsDNA HS Assay Kit, 500 assays	1 kit
Q33232	Quant-iT™ 1X dsDNA HS Assay Kit, 1000 assays	1 kit
Q33120	Quant-iT™ dsDNA Assay Kit, High Sensitivity, 1000 assays *0.2-100 ng*	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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 - User guides, manuals, and protocols
 - 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	07 December 2017	New user guide



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