

EzQuant 1X dsDNA HS Quantification Kit

Product Description

EzQuant 1X dsDNA HS (High Sensitivity) Quantification Kit contains a highly specific fluorescent dye that is designed for samples with low concentrations of dsDNA, and has good tolerance to contaminants.

It provides ready-to-use working solutions and standards that you only need to prepare 1-20 µl of sample and perform measurements with the EzCube Fluorometer. Users can easily and accurately quantify DNA sample concentrations ranging from 10 pg/µl to 100 ng/µl.

Components

		Amount	
Material	Concentration	T00-FPBR00-00 (100 Assays)	T00-FPBR04-00 (500 Assays)
EzQuant 1X dsDNA HS Working Solution	1X concentrate in DMSO	50 ml *1	50 ml *5
EzQuant 1X dsDNA HS Standard #1	0 ng/μl in TE Buffer	1 ml *1	1 ml *5
EzQuant 1X dsDNA HS Standard #2	10 ng/µl in TE Buffer	1 ml*1	1 ml*5

Note: For Research Use Only. Not for use in diagnostic procedures.

Shipping and Storage

All the components are shipped with ice pack and can be stored at 2 - 8 °C away from light for one year.

Required Material (not provided)

- 1. P2/P20/P200 Micropipette
- 2. Tips
- 3. 0.5 ml thin wall polypropylene tubes

Perform Assay Procedure

- **Experimental preparation**
- 1. Equilibrate the material to the room temperature before use.
- 2. Prepare enough 0.5 ml thin wall polypropylene tubes and label the tube lids. EzQuant 1X dsDNA HS Assay requires 2 standards.

Note: Please do not label the side wall of the tube as this could interfere with the collection of fluorescent signals.



Prepare standards

- 1. Add 190 μI of EzQuant 1X dsDNA HS Working Solution to the appropriate tube.
- 2. Add 10 µl of EzQuant 1X dsDNA HS Standard #1 and EzQuant 1X dsDNA HS **Standard #2** to the appropriate tube.
- 3. Vortex gently for 2-3 seconds and avoid creating air bubbles.

Note: If you do not need to establish a standard curve, you can skip this step

Prepare samples

- 1. Add 180 199 μI of EzQuant 1X dsDNA HS Working Solution to the appropriate tube.
- 2. Add 1 20 μl of samples to the appropriate tube such that the final volume is 200 μl.
- 3. Vortex gently for 2-3 seconds and avoid creating air bubbles.

Detection

- 1. Incubate at room temperature for 2 minutes in the dark.
- 2. Follow procedure appropriate for your instrument.

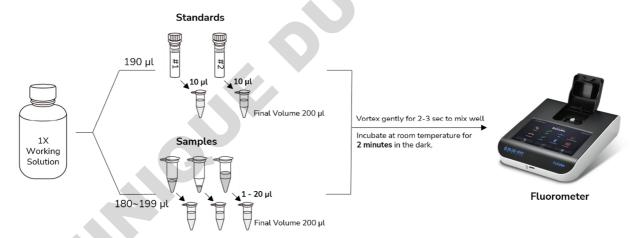


Figure 1. Workflow using EzQuant 1X dsDNA HS Quantification Kit.



Table 1. Effects of contaminants on the results of EzQuant 1X dsDNA HS Quantification Kit

Contaminant	Concentration in	Concentration of	Detection	
	10 µl sample	sample	Results	
Salts				
Ammonium acetate	200 mM	10 mM	OK	
Sodium acetate	200 mM	10 mM	ОК	
Sodium chloride	200 mM	10 mM	OK	
Magnesium chloride	40 mM	2 mM	OK	
Organic Solvents				
Phenol	2%	0.1%	OK	
Ethanol	20%	1%	OK	
Chloroform	4%	0.2%	OK	
Detergents				
Sodium dodecyl sulfate	0.2%	0.01%	OK	
Triton X-100	0.02%	0.001%	OK	
Other compounds				
Bovine serum albumin	400 μg/ml	20 μg/ml	OK	
RNA	1X*	1X*	OK	
dNTPs	2 mM	100 μM	OK	
Polyethylene glycerol	20%	1%	OK	
Agarose	2%	0.1%	OK	

^{* [1}X] means the concentration of contained RNA is same as the dsDNA.

Ordering Information

Catalog No.	Description	
BRFP-0200	EzCube Fluorometer (Blue & Red)	
BRFP-0300	EzCube Fluorometer (Blue, Red & Green)	
T00-FPBR00-00	EzQuant 1X dsDNA HS Quantification Kit (100 Assays)	
T00-FPBR04-00	EzQuant 1X dsDNA HS Quantification Kit (500 Assays)	
T00-FPBR01-00	EzQuant ssDNA Quantification Kit (100 Assays)	
T00-FPBR02-00	EzQuant RNA HS Quantification Kit (100 Assays)	
T00-FPBR03-00	0.5 ml Thin Wall PCR Tube	

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