1×dsDNA HS Assay Kit

Please read the manual carefully prior to use.

Cat. No. GS401

Storage: at 2-8 ºC in dark for one year

Description

1×dsDNA (double-stranded) HS (High Sensitivity) Assay Kit is a simple, sensitive and accurate kit for the fluorescence quantitative detection of double-stranded DNA. The kit includes a pre-mixed working solution with fluorescent dye and dsDNA standards. The assay is highly selective for dsDNA and can quantify 0.2-100 ng of dsDNA samples. The product is easy to use, add the dsDNA sample to the working solution at room temperature, and read the concentration using a Qubit Fluorometer.

Features

The operation is simple, and the quantification is sensitive and accurate.

Application

Detection range of 0.2 ng to 100 ng of dsDNA

Kit Contents

Component	GS401-00 (20 rxns)	GS401-01 (100 rxns)	GS401-02 (500 rxns)
1×dsDNA HS Working Solution	10 ml	50 ml	2×125 ml
1×dsDNA HS Standard #1 (0 ng/μl)	50 μl	250 μl	1.25 ml
1×dsDNA HS Standard #2 (10 ng/μl)	50 μl	250 μl	1.25 ml

Protocol

1. Place the components of the kit at room temperature for 30 minutes to equilibrate it to room temperature before use.
2. The number of samples to be tested is N, take N + 2 0.5 ml PCR tubes for standard calibration and sample detection. Be sure to calibrate with standards for first use, and then at regular intervals.
   Note: 0.5 ml PCR tubes with no scales on the side walls must be used.
3. Label 0 ng/μl, 10 ng/μl, sample #x, #y..... on the lid of the PCR tube.
   Note: Do not label the side walls of the PCR tubes.
4. Preparation of standards for calibration. Add 190 μl of 1×dsDNA HS Working Solution to the PCR tubes labeled 0 ng/μl and 10 ng/μl, add 10 μl of 1×dsDNA HS standard #1 (0 ng/μl) and 1× dsDNA HS standard #2 (10 ng/μl) to the corresponding tubes, vortex to mix, and briefly spin.
5. Prepare sample detection solution. Add 198 μl of 1× dsDNA HS Working Solution to the sample PCR tube. Add 2 μl of the dsDNA sample. Vortex to mix, and briefly spin.
   Note: The above is the recommended volume. Add 1× dsDNA HS Working Solution in a range of 190-199 μl, and the volume of the dsDNA sample to be tested ranges from 1-10 μl, with a final volume of 200 μl per tube.
6. Incubate all PCR tubes for 2 minutes at room temperature away from light.
7. (Using Qubit 3.0 as an example) Select dsDNA on the Qubit Fluorometer > dsDNA High sensitivity -->Read standards> Calibration 0 ng/μl > Calibration 10 ng/μl > Run Sample --> Select sample volume --> Detect sample DNA concentration.

For research use only, not for clinical diagnosis

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Service telephone +86-10-57815020
Service email complaints@transgen.com