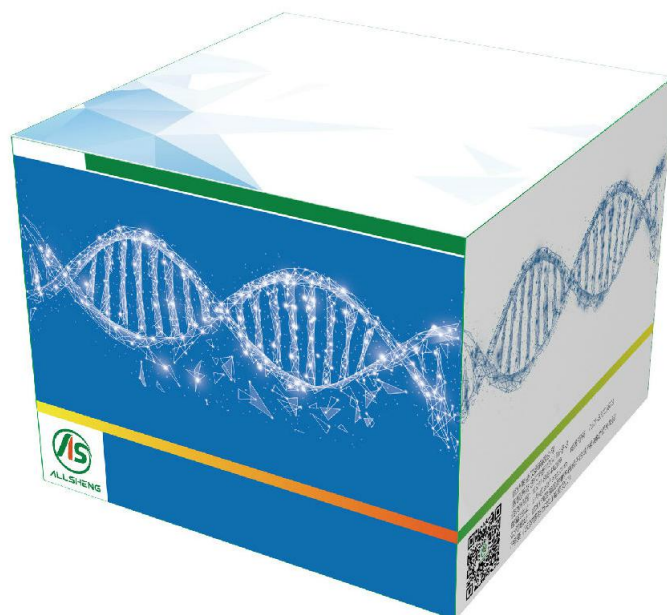


Operation Manual

Version 1.0

Allsheng® ssDNA Quantitation Kit



ALLSHENG

Hangzhou Allsheng Instruments Co.,Ltd.

Allsheng® ssDNA Quantitation Kit

Cat.No.	Product name	Unit size	Application field	Assay range
RS-FL0103	Allsheng® ssDNA Quantitation Kit	50 assays	For research use only	1-200 ng

The Allsheng® ssDNA Quantitation Kit provides a simple, sensitive, and accurate quantitation for ssDNA. The Kits include concentrated assay reagent, dilution buffer, and pre-diluted ssDNA standards. The assay kit is highly sensitive and selective for ssDNA due to fluorescence dye high quantum yield and large molar extinction coefficient. The kit offers advantages in stability, linear dynamic range, and sensitivity over other traditional of ssDNA quantitation. The assay is performed at room temperature. The reagent simply is diluted using the buffer provided, added your sample (any volume between 1 μ L and 20 μ L is acceptable), and the fluorescence is read using Allsheng® Fluo-100 Fluorometer.

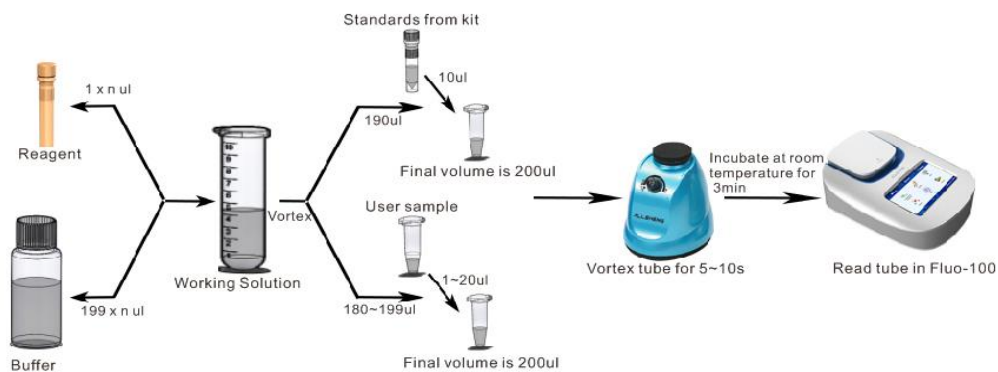
1. Contents and Storage

Material	Storage	Amount	Concentration
Allsheng® ssDNA Reagent (component 1)	4 °C Protect from light	50 μ L	200 X in DMSO
Allsheng® ssDNA Buffer (component 2)	Room temperature	13 mL	1 X
Allsheng® ssDNA Standard #1 (component 3)	4 °C	100 μ L	0 ng/ μ L
Allsheng® ssDNA Standard #2 (component 4)	4 °C	100 μ L	20 ng/ μ L
Operation manual		1 copy	
0.5 mL PCR tube		50 per	

2. General Protocol

2.1 Preparation of reagent

- 1) Warm up Allsheng® ssDNA quantitation Kit to room temperature. Check the Allsheng® ssDNA reagent for any precipitation. If precipitation is seen, warm up the vial in a water bath and vortex until dissolved.
- 2) Prepare the Allsheng® working solution by diluting the Allsheng® ssDNA reagent 1:200 in 1 \times Allsheng® ssDNA buffer. Use a clean plastic tube each time to make Allsheng® working solution. For example, to measure 8 samples in duplicate, add 10 μ L of Allsheng® ssDNA reagent to 1990 μ L of Allsheng® ssDNA Buffer. Mix well and use **IMMEDIATELY**.



2.2 Calibration of standard curve

- 1) Add 190 μL of the Allsheng® working solution to each assay tube. (Note: Use only thin-wall, clear 0.5 mL PCR tubes for fluorescence analysis. Acceptable tubes include Allsheng® PCR tubes or Axygen PCR-05-C tubes.
- 2) Add 10 μL of ssDNA standard #1 (Component 3), ssDNA standard #2 (Component 4), and mix by vortexing 5-10 seconds, and incubate all tubes at room temperature for 2 minutes in the dark. **Note:** When mixing ssDNA standard and working solution, please disperse the bubbles before analysis.
- 3) Select the Blue module of Fluo-100 fluorometer, and measure the fluorescence using calibration program of standard curve. Click oligo in the **Home** interface, select **Curve ID: ssDNA-01**, and press **Calibration**. The tubes of ssDNA standard #1 and standard #2 were placed in the instrument and detected. After calibration, please click the **Back** button and **save the data**.

2.3 Sample analysis

- 1) Add the sample (any volume between 1 μL and 20 μL is acceptable) and the Allsheng® working solution, and the final volume in each tube should be 200 μL .
- 2) Mix by vortexing 5-10 seconds, and incubate all tubes at room temperature for 3 minutes in the dark. **Note:** When mixing ssDNA standard and working solution, please disperse the bubbles before analysis.
- 3) Click **ssDNA** in the **Home** interface, enter **Detecting** and input the sample volumes. Tubes of ssDNA samples were placed in the instrument and detected.

$$\text{The concentration of sample (ng/}\mu\text{L)} = \text{The sample concentration of PCR tube (ng/}\mu\text{L)} \times \frac{200\mu\text{L}}{\text{The sample volume}(\mu\text{L})}$$

Version Modification Records:

Version	Date	Description on the Modification
V1.0	2020.04.13	➤ Initial Release Version

Thanks for purchasing our products. Please keep operation manual well for further use.

Hangzhou Allsheng Instrument aim to create a reputation brand of laboratory and life science instruments with the innovation technology, excellent quality and outstanding service in the world.



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