02 Fluo-100 Fluorometer





Our nano series Micro-Spectrophotometer measure the concentration and purity of the sample, because it is able to measure the absorbance of the whole ingredient(such as DNA, RNA, oligos and so on) of the sample at 260nm, that may make the read inaccuracy. While the fluorometer measure the fluorescence intensity of the fluorescent reagent which combine with the target molecule to read the concentration of sample. Generally, the read is lower than Nano series products but much accuracy than it

The sensitivity of Nano series products are above 5ng/ul, and while the fluorometer is 0.5pg/ul in measuring DNA concentration. It is important and necessary for the most applications to read the lower and accuracy concentration of the sample. Using the Fluo-100 fluorometer with the quantitation kit can measure the sample concentration rapidly, sensitively and accurately



02

Fluo-100 Simple, easy to use and applications

The Fluo-100 is a dual-channel fluorometer, it provides high-sensitive fluorescent detection when quantifying nucleic acids and proteins, simple and cost to operate Applications:

- 1. The sample is scarce and difficult in processing
- 2. The low quantity of DNA, RNA, or protein after extraction
- 3. The sample will be used in the expensive experiments: qPCR, PCR cloning, transfection, the next generation sequencing and etc.

<u>03</u>

Fluo-100 Highlights

- 1. Simple 4.3 inch touch screen, small and easy to use
- 2. Easy measurement within 3 sec for DNA, RNA, and protein
- 3. High sensitivity Lowest DNA detection limit is 0.5pg/ul
- 4. Two optical channels Equipped with two fluorescence channels for nucleic acid, protein quantitation in one detection
- 5. Linear Dynamic Range--Five orders of magnitude.
- 6. Opening system--You can match the instrument with the reagent you choose
- 7. It can save at most 1,000 data and output data by USB port
- 8. Adapter: 0.5ml qPCR tube adapter

0.2ml qPCR tube adapter

<u>01</u>

<u>04</u>

Two detection models of Fluo-100

| Code | Light | Excitation Filters | Emission Filters |
|-----------|-------|--------------------|------------------|
| Fluo-100A | UV | 365±20nm | 420-480nm (60nm) |
| | Blue | 460±20nm | 525-570nm (45nm) |
| Fluo-100B | Blue | 460±20nm | 525-570nm (45nm) |
| | Red | 625±20nm | 670-725nm (55nm) |
| Fluo-100C | Blue | 460±20nm | 525-570nm (45nm) |
| | Green | 525±20nm | 575-640nm (65nm) |

<u>05</u>

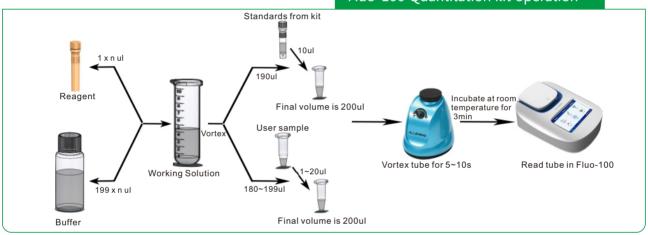
Fluo-100 Quantitation kit

High sensitivity of dsDNA Quantitation Kit: 0.2--100ng High sensitivity of ssDNA Quantitation Kit: 1--200ng Broad range of dsDNA Quantitation Kit: 100--1600ng

Protein Quantitation Kit is researching

Specification Light source LED Dynamic range Five orders of magnitude R²>0.995 Linear Dynamic Range Photodiode Detector Repeatability <1.5% Stability <1.5% dsDNA: 0.5ng/ml Sensitivity Measurement speed 3s (Once) Dimension (W×D×H)mm 194 × 155 × 72.5 mm Weight (kg) 0.4Kg

Fluo-100 Quantitation kit operation



Application of different fluorescence channel

| Channel | Excitation Filters | Normal kits | Applications | |
|---------------|--------------------|---|---|--|
| UV channel | 365±20nm | Hoechst 33258, 4-MU, EnZCheK Caspase | Nucleic acid quantification, Plant GUS reporter gene detection, Poptosis detection | |
| Blue channel | 460±20nm | PicoGreen®, oligreen, RiboGreen®, GFP, Protein, Fluorescein, Quant-iT™ | dsDNA, ssDNA, RNA quantification, GFP gene detection, Fluorescein detection, Protein detection | |
| Green channel | 525±20nm | Rhodamine, Cy3, RFP Vybrant Cytotoxicity | Rhodamine detection, Cy-3 fluorescence labeling detection, RFP gene detection, Cell activity position detection | |
| Red channel | 625±20nm | Cy5, Quant-iT RNA | Cy-5 fluorescence labeling detection, RNA quantification | |

Ordering information

| Code | Description | Code | Description |
|-------------|--|----------------------------|--|
| AS-18010-00 | Fluo-100A Fluorometer, DC12V 1A | RS-FL0101-S | 101-M High-sensitivity dsDNA Quantitation kits (200 assays) |
| AS-18020-00 | Fluo-100B Fluorometer, DC12V 1A | RS-FL0101-M RS-FL0101-L | |
| AS-18030-00 | Fluo-100C Fluorometer, DC12V 1A | RS-FL0102-S | Broad-range dsDNA Quantitation kits (100 assays) Broad-range dsDNA Quantitation kits (200 assays) Broad-range dsDNA Quantitation kits (1000 assays) |
| AS-18011-01 | Adapter for 0.5ml qPCR tube (Standard) | RS-FL0102-M RS-FL0102-L | |
| AS-18011-02 | Adapter for 0.2ml qPCR tube (Optional) | RS-FL0103-S | High-sensitivity ssDNA Quantitation kits (100 assays) High-sensitivity ssDNA Quantitation kits (200 assays) High-sensitivity ssDNA Quantitation kits (1000 assays) |
| | | RS-FL0103-M RS-FL0103-L | |



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