

Fluorometer



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Model: MSFLUO200SWISS

The MSFLUO200SWISS Fluorometer is a state-of-the-art device crafted to deliver swift and accurate quantification of DNA, RNA, and proteins. Utilizing advanced fluorescence technology, it supports researchers in diverse life sciences applications by offering precise, efficient, and user-friendly analysis.

Key Features

- **Rapid Analysis:** Delivers precise measurements in as little as 2.5 seconds per sample.
- **High Sensitivity:** Detects low biomolecule concentrations, with a limit of detection as low as 10 pg/ μ L (dsDNA original concentration).
- **Minimal Sample Volume:** Requires only 1–20 μ L for reliable results.
- **Versatile Applications:** Compatible with various fluorescence dyes, pre-configured, or custom standard curves for experimental flexibility.
- **User-Friendly Interface:** Equipped with a 5.7-inch touchscreen for intuitive operation.
- **Data Management:** Supports up to 10,000 program storage and USB data export for convenience.

Applications

The MSFLUO200SWISS Fluorometer is an indispensable tool for various fields of life sciences, including:

- **Nucleic Acid Quantification:** Accurate DNA and RNA measurements for molecular biology experiments.
- **Protein Quantification:** Precise protein level determination for cellular and biochemical studies.
- **NGS Library Preparation:** Ensures optimal quantification for Next-Generation Sequencing workflows.
- **Western Blot Analysis:** Facilitates quantitative analysis of protein expression levels.

Specifications

Parameter	Details
Light Source	Blue LED (470 nm), Red LED (635 nm)
Excitation Filter	Blue: 470 ± 20 nm, Red: 635 ± 20 nm
Emission Filter	Green: 550 ± 20 nm, Red: 700 ± 20 nm
Detector	Photodiodes
Throughput	1
Sample Volume	1–20 µL
Sample Tube	0.5 mL PCR tube
Measurement Time/Sample	2.5 seconds
Dynamic Range (dsDNA)	5 orders of magnitude
Limit of Detection	dsDNA: <0.05 pg/µL
Stability/Repeatability	<1.5%
Display	5.7-inch touchscreen
External Port	Wi-Fi, 2×USB-A
Storage Capacity	10,000 programs
Power Supply	AC 100–240 V, 50/60 Hz
Power Input	12 V, 3 A
Operating Temperature	5–40°C
Operating Humidity	20–80% (non-condensing)
Weight	0.8 kg
Dimensions (W×L×H)	136×246×51 mm

Fluorometer Reagents

Part Number	Description	Quantitation Range	Initial Sample Concentration	Number of Assays
FLR-dsDNA	1X dsDNA HS Assay Kit	0.5–100 ng	0.025–100 ng/μL	100T
FLR-ssDNA	1X ssDNA HS Assay Kit	0.5–200 ng	0.025–200 ng/μL	100T
FLR-RNA	RNA HS Assay Kit	0.5–200 ng	0.025–200 ng/μL	100T

The MSFLUO200SWISS Fluorometer combines advanced technology, compact design, and intuitive operation, making it a versatile and reliable tool for life sciences laboratories.