



**Bioer
Technology**



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QuantFlex 800 Fluorometer Solution

Accurate and efficient nucleic acid
quantification made simple.



QuantFlex Fluorometer

Our QuantFlex 800 is a benchtop Fluorometer for accurate quantification of DNA, RNA, and proteins using specific fluorescent dyes that bind selectively to target molecules. It works by exciting fluorophores at a defined wavelength and measuring emitted fluorescence, with signal intensity directly proportional to concentration, enabling sensitive and reliable quantification even at low levels. As an open system, QuantFlex is compatible with a wide range of third-party reagents, offering flexibility and cost efficiency. It is ideal for applications such as NGS library preparation, gene expression analysis, and nucleic acid quality control.

Key Features



Accuracy and Speed

Accurately quantifies DNA, RNA, or protein in less than 5 seconds.



User-Friendly Interface

Intuitive software and pre-set experimental template facilitate ease of operation and data analysis.



Optimized for QuantFlex Reagents

Seamlessly integrated with QuantFlex reagents to deliver reliable, sensitive, and specific results.



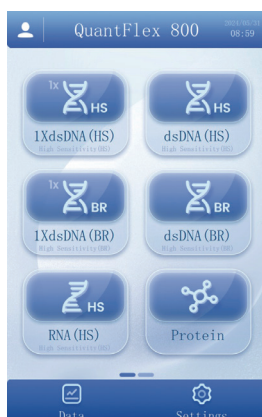
High Throughput Detection

8-sample capacity for rapid and efficient multi-sample analysis.

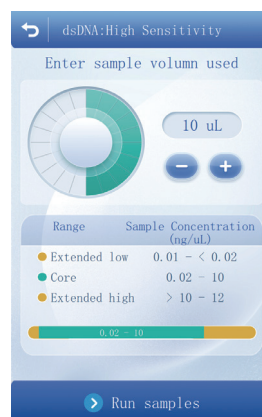
Software Interface



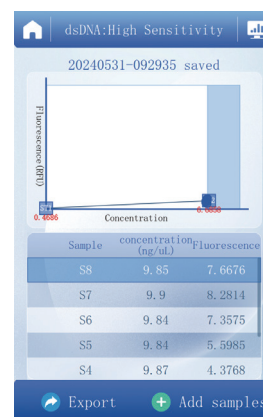
Stand-Alone: 8-inch touch screen display, no additional laptop or PC needed.



Built-in Programs: Allows customers to quickly start experiments.



Wide Dynamic Range: Different colors for different concentration ranges.



Software Intelligence: Automatically generates standard curves and directly outputs concentration of unknown samples.

Specification

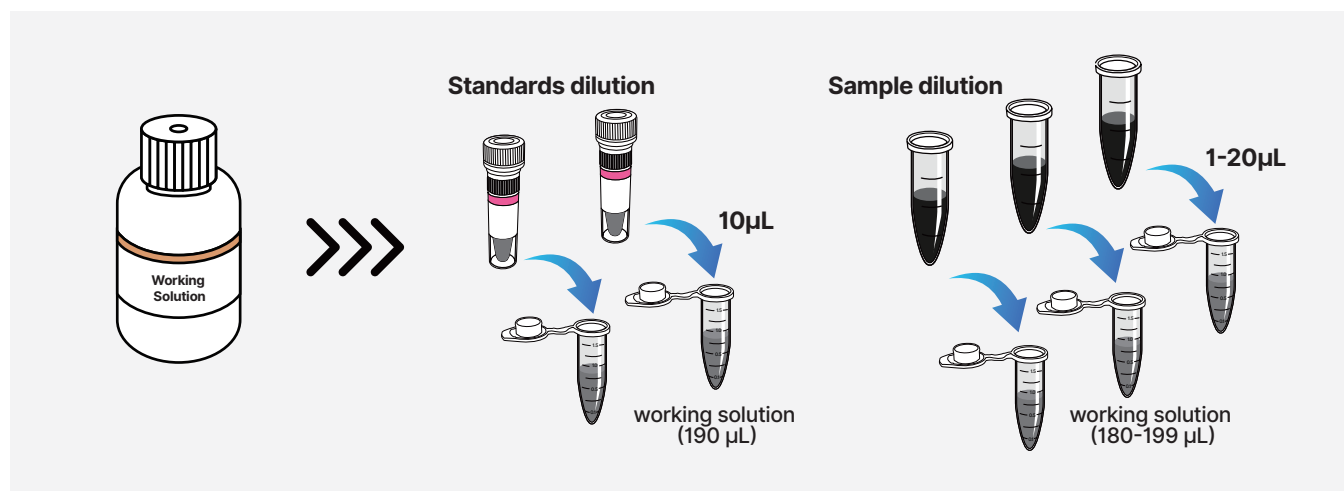
Product Name	QuantFlex Fluorometer
Product Model	QuantFlex 800
Throughput	1-8 samples
Detection Time	Less than 5 seconds (1-8 samples)
User Interface	8-Inch color touchscreen
Sample Volume	1-20µL
Detector	Photodiode
Light Sources	Blue LED (465nm-485nm), Red LED (620nm-630nm)
Excitation Filters	Blue: 460nm-480nm, Red: 620nm-640nm
Emission Filters	Green: 513nm-560nm, Red: 670nm-690nm
Sensitivity	<1pg/µL (dsDNA HS)
Calibration Type	2-or 3-point standard
Dynamic Range	4 orders of magnitude
Linear	$R^2 \geq 0.995$
Tube Type	0.2 mL 8-strip thin-wall tubes
Data Storage	20000 samples
Data Export	USB drive/ Direct to computer
File Format	CSV
Input Power	24Vdc, 90W
External interface	3 USB (Two USB 2.0 ports and one USB 3.0 port.), 1 LAN Ethernet
Dimension	295mm (L)×176mm (W)×88mm (H)
Weight	1.8Kg

QuantFlex 800 DNA quantification assays

QuantFlex 800 DNA quantification kits are broadly categorized as double-stranded DNA (dsDNA) assays or single-stranded DNA (ssDNA) assays.

Cat.No.	Product Name	Quantitation range	Package	Storage Condition
BSB83	QuantFlex 1X dsDNA HS Quantification Kit	5 pg/µL to 120 ng/µL	250T/1250T	2-8°C
BSB124	QuantFlex 1X dsDNA BR Quantification Kit	200 pg/µL to 4000 ng/µL	250T/1250T	2-8°C
BSB116	QuantFlex ssDNA Quantification Kit	10 pg/µL~240 ng/µL	250T/1250T	2-8°C

Product Workflow



1X dsDNA HS Quantification Kit

This kit is a convenient, sensitive, and accurate double-stranded DNA (dsDNA) fluorescence quantification kit, consisting of a ready-to-use working solution, dsDNA Standard 1, and dsDNA Standard 2. It features high specificity for dsDNA, enabling precise quantification of samples within a concentration range of 5 pg/μL to 120 ng/μL. The assay demonstrates strong resistance to common contaminants such as salts, free nucleotides, organic solvents, detergents, and proteins, ensuring reliable performance across a wide variety of sample types.

■ I Product Features

- ✓ **High Specificity:** dsDNA-specific dye, single-stranded DNA, and RNA has little influence;
- ✓ **Good Sensitivity:** Wide range of quantitative concentration, dsDNA concentration 5pg/μL to 120ng/μL;
- ✓ **Resistance to Inhibition:** Tolerance to various interferents such as salt, free nucleotide, solvent, stain remover and protein;
- ✓ **Wide Application:** It can be used for dsDNA quantification of different sample sources.

■ I Product Specification

Parameters	Description
Initial Sample Volume	1-20 μL
Quantitation Range	5 pg/μL to 120 ng/μL
Initial Sample Concentration	0.1-120 ng
Compatible Platform	QuantFlex 800, Qubit 2, Qubit 3, Qubit 4, and Qubit Flex
Compatible Consumables	BSH11S1 0.2mL PCR 8-Strip Tubes (With Attached Flat Caps) BSH11S1-L 0.2mL PCR 8-Strip Tubes (With Attached Flat Caps)
Storage Condition	Store at 2–8°C, protected from light

QuantFlex 1X dsDNA BR Quantification Kit

The QuantFlex 1X dsDNA BR Quantification Kit is a convenient, broad-range, and accurate fluorescent assay for the quantification of double-stranded DNA (dsDNA). The kit includes a ready-to-use working solution and dsDNA standards, enabling reliable DNA quantification with minimal preparation.

Depending on sample volume 1-20 μL, the assay kit is designed to be accurate for initial DNA sample concentrations of 0.2 to 4000 ng/μL, providing a detection range of 4-4,000 ng. It demonstrates strong tolerance to common contaminants such as salts, free nucleotides, solvents, detergents, and proteins, ensuring accurate results even with partially purified samples.

■ I Product Features

- ✓ **High Inhibitor Tolerance:** Delivers reliable dsDNA quantification in the presence of common contaminants, including salts, free nucleotides, solvents, detergents, and proteins.
- ✓ **Broad Quantification Range:** Accurately quantifies dsDNA over a wide concentration range from 0.2 to 4,000 ng/μL.
- ✓ **High Selectivity for dsDNA:** Specifically detects double-stranded DNA, minimizing interference from RNA and other nucleic acids.
- ✓ **Easy-to-Use Workflow:** Simple mix-and-read format with minimal hands-on time, compatible with QuantFlex 800 and Qubit fluorometers.

■ I Product Specification

Parameters	Description
Detection Method	Fluorescence
Initial Sample Volume	1-20 μL
Quantitation Range	0.2 to 4,000 ng/μL
Initial Sample Concentration	4-4,000 ng
Compatible Platform	QuantFlex 800, Qubit 2, Qubit 3, Qubit 4, and Qubit Flex
Compatible Consumables	BSH11S1-L 0.2mL PCR 8-Strip Tubes (With Attached Flat Caps)
Storage Condition	Store at 2–8°C, protected from light

QuantFlex ssDNA Quantification Kit

The QuantFlex ssDNA Quantification Kit provides a rapid, convenient, and highly accurate method for quantifying single-stranded DNA (ssDNA), oligonucleotides, and single-stranded circular DNA (ssCirDNA) libraries. Designed for use with the QuantFlex 800 Fluorometer or Qubit Fluorometer, this assay delivers reliable and sensitive detection across a broad initial concentration range of 10 pg/μL to 240 ng/μL, depending on sample input volume.

The assay demonstrates excellent tolerance to common contaminants, including salts, solvents, detergents, and proteins, ensuring accurate results even in complex sample matrices. It is suitable for quantifying both oligonucleotides and long single-stranded DNA. Free nucleotides and short single-stranded DNA fragments (≤6 bases) do not interfere with quantification.

Although optimized for ssDNA measurement, the fluorescent dye exhibits enhanced fluorescence when bound to double-stranded DNA (dsDNA) or RNA. Therefore, sample purity should be considered when interpreting results.

Product Features

-  **Easy to Use:** Ready-to-use working solution. Simply mix with sample and incubate. No dye reconstitution required.
-  **High Sensitivity:** Excellent linearity from 10 pg/μL to 240 ng/μL with a wide dynamic range.
-  **Inhibitor Tolerant:** Resistant to common contaminants such as salts, solvents, detergents, and proteins.
-  **Broad Compatibility:** Suitable for ssDNA quantification from various sample sources.

Product Specification

Parameters	Description
Detection Method	Fluorescence
Initial Sample Volume	1-20 μL
Quantitation Range	10 pg/μL~240 ng/μL
Initial Sample Concentration	0.2-240ng
Compatible Platform	QuantFlex 800, Qubit 2, Qubit 3, Qubit 4, and Qubit Flex
Compatible Consumables	BSH11S1-L 0.2mL PCR 8-Strip Tubes (With Attached Flat Caps)
Storage Condition	Store at 2-8°C, protected from light

Ordering Information

Cat. No.	Product Name	Quantity
BYQ6B34E	QuantFlex Fluorometer	1 instrument
BSB83	QuantFlex 1X dsDNA HS Quantification Kit	250T/1250T
BSB124	QuantFlex 1X dsDNA BR Quantification Kit	250T/1250T
BSB116	QuantFlex ssDNA Quantification Kit	250T/1250T
BSH11S1	0.2mL PCR 8-Strip Tube (With Attached Flat Caps)	125 sets/box, 12 boxes/case
BSH11S1-L	0.2mL PCR 8-Strip Tube (With Attached Flat Caps), Low Retention	125 sets/box, 12 boxes/case

* For Research Use Only. Not for use in diagnostic procedures.

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E-Date: August 2026

