

TBS-380

Mini-Fluorometer

Picofluor™

Handheld Fluorometer

Compact, easy to use, and cost-effective single tube fluorometers for Life Science applications.

TURNER BIOSYSTEMS
Enabling People. Enabling Science.

TBS-380 Mini-Fluorometer Instrument Specifications

Detection Modes: Fluorescence
Light Source: Wavelength-matched LED
Detector: Silicon photodiode
Wavelength Selection: 2 modes
Wavelengths: P/N 3800-003
UV (Ex 365, Em 440 - 470 nm)
Blue (Ex 460 nm, Em 515 - 575 nm)
Detection Limit: 1 ng/ml dsDNA with PicoGreen®, 1 ng/ml RNA using RiboGreen®, 10 ng/ml dsDNA using Hoechst Dye 33258, 100 ng/ml protein using NanoOrange®
Linear Dynamic Range: 4 logs, assay dependent
Read Out: Direct concentration
Calibration: Single-point calibration
Discrete Sample Average: Sample readings averaged over 5 seconds to improve accuracy
Read Type: Single
Sample Format: 10 x 10 mm cuvette or 50 - 250 µl minicell vial (optional)
User Interface: Menu-driven keypad and LCD display
Data Output: ASCII format through a 9-pin RS-232 serial cable at 9600 baud rate (optional)
External PC Requirements (optional): Windows 95 or later
Computer Interface: RS-232 port
Power: 9 V external power supply, 100 - 240 V AC, 50/60 Hz, max. 5 Watts
Alarms: High blank
Dimensions: 7.25" D x 5.5" W x 2.7" H (18.42 cm D x 14 cm W x 6.9 cm H)
Weight: 1.8 lbs (0.7 kg)
Operating Temperature: 59 - 98 °F (15 - 35 °C)
Warranty: One year
Approvals: CE, UL-approved power supply

Picofluor™ Handheld Fluorometer Instrument Specifications

Detection Modes: Fluorescence
Light Source: Wavelength-matched LED
Detector: Silicon photodiode
Wavelength Selection: 2 modes
Wavelengths: P/N 8000-003
UV (Ex 365, Em 440 - 470 nm),
Blue (Ex 460 nm, Em 515 - 575 nm)
Wavelengths: P/N 8000-004
Green (Ex 525 nm, Em >570 nm),
Blue (Ex 460 nm, Em 515 - 575 nm)
Detection Limit: 1 ng/ml dsDNA with PicoGreen®, 1 ng/ml RNA using RiboGreen®, 10 ng/ml dsDNA using Hoechst Dye 33258, 100 ng/ml protein using NanoOrange®
Linear Dynamic Range: 4 logs, assay dependent
Read Out: Direct concentration
Calibration: Single-point calibration
Discrete Sample Average: Sample readings averaged over 5 seconds to improve accuracy
Read Type: Single
Sample Format: 10 x 10 mm cuvette or 75 - 250 µl minicell vial (optional)
User Interface: Menu-driven keypad and LCD display
Data Output: ASCII format through a 9-pin RS-232 serial cable at 9600 baud rate (optional)
External PC Requirements (optional): Windows 95 or later
Computer Interface: RS-232 port
Power: 4 x AAA batteries
Alarms: Low battery, circuit failure, and high blank
Auto Shutoff: After 90 seconds of inactive use
Dimensions: 7.25" D x 3.5" W x 1.75" H (18.4 cm D x 8.9 cm W x 4.45 cm H)
Weight: 14 oz (0.4 kg)
Operating Temperature: 41 - 104 °F (5 - 40 °C)
Warranty: One year
Approvals: CE, meets IP67 Standard

TBS-380

Mini-Fluorometer



Picofluor™

Handheld Fluorometer



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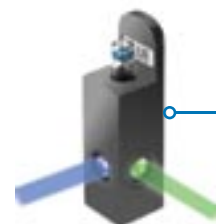
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International Sales
For international sales, contact our headquarters or refer to our Web site at www.turnerbiosystems.com and click the "How to Buy" tab.

Product: TBS-380 Mini and Picofluor™ Handheld Fluorometers
Product Series: Fluorometers
Sample Format: Picofluor™: 10 x 10 mm cuvette or 75 - 250 µl minicell vial (optional)
TBS-380: 10 x 10 mm cuvette or 50 - 250 µl minicell vial (optional)
Technologies: Fluorescence

TBS-380 Mini-Fluorometer

The TBS-380 Mini-Fluorometer is an affordable, sensitive fluorometer designed for quick, easy, and accurate fluorescence measurements. The TBS-380 provides high sensitivity for fluorescence measurements and is so easy to use that you can have results within minutes. Single-point calibration saves time and the dual-channel design allows you to switch between two assays with the touch of a button.



Minicell Adapter

The optional Minicell Adapter with two focusing lenses allows you to measure samples in low assay volumes without losing sensitivity. When used with this Minicell Adapter, the TBS-380 can detect 50 pg of dsDNA in a 50 µL assay volume using PicoGreen® reagent.

Fluorescence Applications



P/N 3800-003 UV/Blue Channel

UV Channel

- Hoechst dye 33258 for DNA Quantitation
- 4-methyl-umbelliferone

Blue Channel

- Picogreen® for DNA Quantitation
- Ribogreen® for RNA Quantitation
- eGFP
- Fluorescein

Internal Datalogging

An internal datalogging package with software that interfaces with Microsoft Excel can log up to 1,000 data points.

Small and Sensibly Priced

The TBS-380 Mini-Fluorometer is smaller than a standard sized book, saving you valuable bench space. It is sensibly priced to meet your need for accurate fluorescence measurements within a limited budget.

Dual Channel

Dual UV and Blue Channels allow you to switch between two assays by pressing one button.

Calibration

Single-point calibration improves accuracy while saving time.

Universal Power

The TBS-380 is powered using a universal power adapter (included).

Simple

The TBS-380 Mini-Fluorometer is designed for fast, accurate fluorescence measurements. It is so easy to use that you can have results within minutes without training.

Picofluor™ Handheld Fluorometer

The Picofluor™ Fluorometer is a lightweight, handheld instrument configured for many of the fluorescent probes commonly used in nucleic acid and protein quantitation. While small in size, performance is not compromised. The Picofluor™ has two dedicated channels that offer the ability to quickly analyze a sample for two different fluorescent signals.

Dedicated Optical Channels

Two optical channels allow you to measure two different fluorophores in the same assay.

Easy to Use

No special training is needed so you can focus on your data, not on how to use the software.

Internal Datalogging

An internal datalogging package with software that interfaces with Microsoft Excel can log up to 1,000 data points.

Sensitive

Four logs of dynamic range.

Inexpensive and Compact

The small, lightweight Picofluor™ Fluorometer can be stored in a drawer or on a shelf. With its low price, you can buy several to easily manage the demands of a busy lab.

Fluorescence Applications



P/N 8000-003 UV/Blue Channel

UV Channel

- Hoechst dye 33258 for DNA Quantitation
- 4-methyl-umbelliferone

Blue Channel

- Picogreen® for DNA Quantitation
- Ribogreen® for RNA Quantitation
- eGFP
- Fluorescein

P/N 8000-004 Green/Blue Channel

Green Channel

- Nucleotide or Protein Labeling
- Enzyme Activity
- Rhodamine
- Cy3

Blue Channel

- Picogreen® for DNA Quantitation
- Ribogreen® for RNA Quantitation
- eGFP
- Fluorescein

Battery Powered

The Picofluor™ is powered by four size AAA batteries.

