

# eviFluor



Fast & super small device

- Full plate measurement time incl. pipetting equals external plate-readers



Effortless On-Deck integration into any liquid handler

- Automated and integrated quantification for sample normalization in NGS library

- Monitored coloring-reaction and read-out takes place in seconds



Saves precious reagents and sample material

#### Validated 2-channel fluorescence measurement

- Sample Volume 1..2  $\mu\text{L}$

- Dye reagent volume 10  $\mu\text{L}$

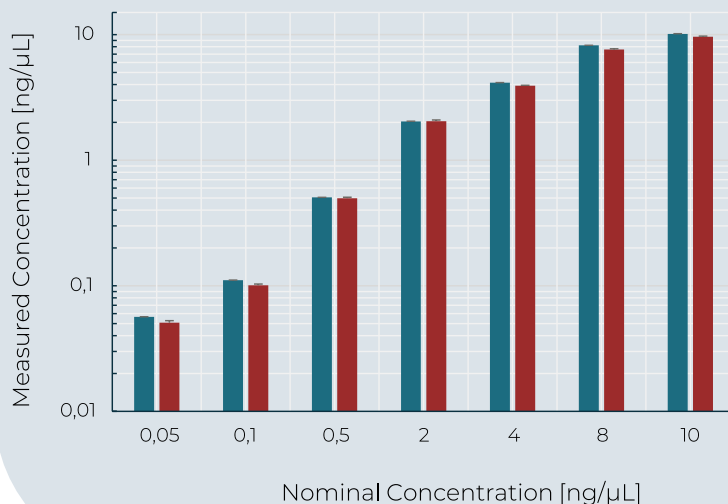
- Excitation: 470 nm / 625 nm

- Emission: 520 nm / 680 nm

- Additional mixing vessel not required



Experimental data show equivalence to benchmark lab equipment



Data of dsDNA standard (10 ng/ $\mu\text{L}$ ) diluted in TE buffer show precision and accuracy matching on-market reference device. LOD is approx. 15 pg/ $\mu\text{L}$  (internal data). Coefficient of Variation (CV) is represented by error bars. N = 8.

■ Reference Device  
■ eviFluor Device

Accuracy and linearity are compared to Qubit 4 Fluorometer using the Quant-iT 1x dsDNA HS Kit (Thermo Fisher Scientific).

Utilizing the Quant-iT 1x dsDNA BR (Broad Range) Kit further allows quantitation up to 200 ng/ $\mu\text{L}$ .



# Technical Specification

Measurement Principle	Fluorescent measurement	
Excitation Wavelength	470 nm / 625 nm	
Emission Wavelength	520 nm / 680 nm	
Sample Volume	as little as 1 $\mu$ L	
Total Measurement Volume	10ul (Microcuvette volume, sample plus dye)	
DNA Sample Concentration		
Quant-iT 1x dsDNA HS Kit	0.5 to 120 ng/ $\mu$ L	(Thermo Fisher Scientific, #Q33232)
Quant-iT 1x dsDNA BR Kit	0.5 to 4000 ng/ $\mu$ L	(Thermo Fisher Scientific, #Q33267)
Relative error		
for DNA concentrations $\geq 0.5$ ng/ $\mu$ L	less than 10%	
for DNA concentrations of 0.1 ng/ $\mu$ L	tend to be higher	
LOD	approx. 15 pg/ $\mu$ L (internal data)	
Measurement Time per sample	1 sec	
Tip compatibility	Most 20...200 $\mu$ L disposable tips, different brands	
Dimensions	Body (WDH): 128 x 85 x 56 mm SBS standard (5.5 x 3.3 x 2.2 inch) Height including Cuvette Racks: 67mm (2.7 inch)	
Weight	0.6 kg (1.3 lbs.)	
Power and Communication Interface	USB Type-C (USB 2.0)	
Software Interface	API documentation and command line executable	

## Ordering information

Product Number	1003810
----------------	---------

### Saves Sample and Reagent

Total required mix volume is only 10 $\mu$ L.

### Boosts Reliability

Seamless integration makes sample quantification a **quick routine step**.

### Cost Effective

Full plate measurement time incl. pipetting equals external plate-readers. Additional vessel for mixing is not required.



Hombrechtikon Systems Engineering AG  
Garstligweg 6, 8634 Hombrechtikon  
Switzerland

Tel. +41 55 254 04 00  
info@hseag.com - www.hseag.com

