

Photometer DEN-600

Description

DEN-600 is a compact, portable, rechargeable battery powered photometer. Photometer comprises of 600 nm wavelength optical system.

The device serves as an inexpensive alternative to a spectrophotometer, which is commonly used for these applications.

Because DEN-600 is battery powered and compact, it can be comfortably located in a biosafety cabinet, anaerobic chamber or quickly moved to another lab room.

Additionally, the vessel holding mechanism allows accommodating standard 10 mm path cuvettes, round bottom, conical vials or falcon tubes, therefore enabling to measure the absorbance and turbidity in Abs, OD or McF units.



Photometer DEN-600

Methods

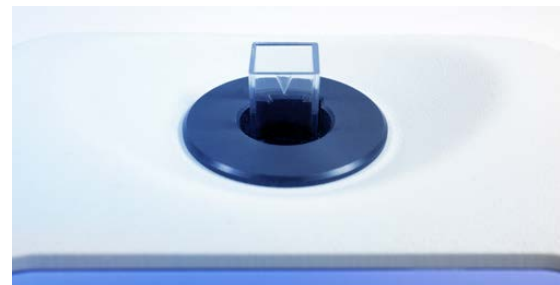
- OD600 method that estimated total number of cells;
- McFarland (McF) turbidity measurement;
- Bradford protein assay method for protein concentration measurement.

USB and DEN Software

- Data transfer;
- Data processing and calculation;
- Software calibration for Bradford-Protein-Assay method;
- Custom calibration for a specifically applicable vessel;
- Custom turbidity standards.

Applications

- Cell concentration measurement
- Cell growth data estimation
- Log phase estimation for microbial cells induction
- Competent cell preparation
- Bradford protein assay method
- Antibiotic susceptibility testing
- Inhibitory tests



Photometer DEN-600, Gefäßaufnahme



Photometer DEN-600, Rückseite

Photometer DEN-600



Technical Data

Measurement Specifications		
Light source	LED, self-calibrating	
Photodetector	Silicone photodiode	
Measurement wavelength (λ)	600 nm ±10 nm	
Vessel type	Cuvettes, round bottom tubes, Falcon tubes	
Measurement mode	Absorbance (Abs)	McFarland (McF)
Measurement range	0 – 3.000 Abs	0.00 – 16.00 McF
Resolution	0.001 Abs	0.01 McF
Accuracy	±0.006 @ 1 Abs	±0.1 @ 0-8 McF
Reproducibility	±0.003 @ 1 Abs	±0.05 @ 0-8 McF
General Specifications		
Battery type	Li-Ion (Lithium-ion polymer battery (LiPo))	
Display	LCD	
PC system requirements	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8/10, USB	
Weight	0.5 kg	
Dimensions (W x D x H)	120 x 145 x 65 mm	
External power supply	Input AC 100-240 V 50/60Hz, Output DC 12 V	
Order No. DEN-600	103.3506	