



Less is More

Small sample volume, less effort:
The new Eppendorf μ Cuvette™ G1.0



Reliable and precise sample positioning thanks to innovative surface coating

Shows Its True Potential During Use

The Eppendorf μ Cuvette G1.0 microliter measuring cell is particularly well suited for measuring high concentrations in the smallest volumes. The μ Cuvette G1.0 has been exclusively developed for the Eppendorf BioPhotometer® and Eppendorf BioSpectrometer®.

Eppendorf's expertise and extensive experience in the field of photometry is demonstrated by the optimized functionality of the optical properties of both the device and cuvette. The μ Cuvette G1.0 features an optical path length of only 1 mm, which is 10 times shorter than the light path length of standard cuvettes.

For example, this allows nucleic acid concentrations to be measured with high reproducibility in a much higher concentration range without prior dilution. Only 1.5 μ L of a sample is required for the measurement.

Product characteristics:

- > Microvolume measuring cell for measuring sample volumes $\geq 1.5 \mu\text{L}$
- > Highly reliable and reproducible measuring results due to simple handling
- > One component hinged design, prevents the loss of individual parts
- > A defined angle for folding the sides of the cuvette guarantees reproducible handling
- > Simple cleaning minimizes the risk of sample carry-over
- > Exclusively available for Eppendorf BioPhotometer and BioSpectrometer

Eppendorf μ Cuvette G1.0



Positioning aid for placing the cuvette in the cuvette shaft and improved grip when unfolded.

The hinged design tightly connects both sides of the cuvette to each other and specifies a defined angle for folding the unit.

Hydrophobic surface coating on quartz glass guarantees simple cleaning and the precise formation and positioning of the sample volume.

Technical specifications

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|---------------------------------|--|
| Material | Quartz glass and aluminum |
| Coating | Hydrophobic surface coating |
| Measuring range | 180 nm–2,000 nm* ¹ |
| Volume | ≥ 1.5 μ L dsDNA; ≥ 3 μ L protein |
| DNA detection limit | 2.5 ng/ μ L (= 0,005A)* ² ; 25 ng/ μ L (=0.05 A) |
| DNA max. concentration | 1,500 ng/ μ L (= 3.0 A) |
| Height of light beam | 8.5 mm |
| Optical window | 2 |
| Layer thickness | 1 mm (\pm 0.03) |
| Basic absorbance | ≤ 0.1 A at 230 nm; ≤ 0.05 A at 260 nm |
| External dimensions (W × D × H) | 12.5 mm × 12.5 mm × 48 mm |
| Device compatibility | Exclusively available for Eppendorf spectrometers/photometers: BioPhotometer and BioSpectrometer |
| Methods | Quantification of nucleic acids and proteins (A 280 nm), colorimetric protein determination |

*¹ Measurable wavelength range depends on the measuring range of the used photometer

*² Performance according to the BioPhotometer/BioSpectrometer technical specifications

| Ordering information | | |
|---|-------------------------|-------------------------|
| Description | International Order no. | North America Order no. |
| Eppendorf µCuvette™ G1.0 Eppendorf microvolume measuring cell for Eppendorf BioPhotometer and BioSpectrometer | 6138 000.018 | 6138000018 |
| Eppendorf BioSpectrometer® basic 230 V/50–60 Hz, mains plug for Europe, additional mains/power connections available | 6135 000.009 | – |
| 120 V/50–60 Hz, mains plug for North America | 6135 000.017 | 6135000017 |
| Eppendorf BioSpectrometer® kinetic 230 V/50–60 Hz, mains plug for Europe, additional mains/power connections available | 6136 000.002 | – |
| 120 V/50–60 Hz, mains plug for North America | 6136 000.010 | 6136000010 |
| Eppendorf BioPhotometer® plus 230 V/50–60 Hz, mains plug for Europe, additional mains/power connections available | 6132 000.008 | – |
| 120 V/50–60 Hz, mains plug for North America | 6132 000.016 | 952000006 |
| UVette® 220 nm–1,600 nm Original Eppendorf disposable cuvette, individually packaged, certified PCR clean and protein-free, 80 pcs. | 0030 106.300 | 952010051 |
| UVette® routine pack 220 nm–1,600 nm Eppendorf Quality purity grade, disposable box, 200 pcs. | 0030 106.318 | 952010069 |
| Eppendorf µCuvette™ G1.0 & Eppendorf BioPhotometer® plus Eppendorf microvolume measuring cells and BioPhotometer plus, 230 V/50–60 Hz, mains plug for Europe, additional mains/power connections available | 6132 000.961 | – |
| 120 V/50–60 Hz, mains plug for North America | 6132 000.962 | 6132000996 |
| Eppendorf µCuvette™ G1.0 & Eppendorf BioSpectrometer® basic Eppendorf microvolume measuring cells and BioSpectrometer basic, 230 V/50–60 Hz, mains plug for Europe, additional mains/power connections available | 6135 000.904 | – |
| 120 V/50–60 Hz, mains plug for North America | 6135 000.905 | 6135000923 |

Your local distributor: www.eppendorf.com/contact
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www.eppendorf.com/cuvette