

# QuantiMate

biochrom



Your personal DNA, RNA, oligos and protein quantification kit for precision micro-volume measurements

## Product Overview

QuantiMate is an innovative solution for accurate low volume spectroscopy, providing the simplest way for life scientists to accurately quantify microlitre volumes of DNA and protein in almost any UV/Vis spectrophotometer.

### Key features and benefits:

- **Exceptional measurement performance** - means that your concentrations are more accurate and more reproducible. Measurement performance will not change over time
- **Broad measurement range** - so only one cuvette is required for most concentrations
- **No time consuming dilutions** - samples can be measured without dilution, thereby removing potential error from pipetting mistakes
- **Use little of your precious sample** - use from 0.8 to 2.5µl of sample to save your sample for your downstream experiments
- **Robust design** - difficult to break, reliable performance
- **Large sample window** - Good measurement range, easy to check for sample impurities such as bubbles or dust
- **Fits in most UV/Vis Spectrophotometers** - Standardized 10mm cell shape, and sizing available in 2 different beam heights makes it compatible with most UV/Visible spectrophotometers and allows use with your existing instrument

### QuantiMate...

- Delivers improved micro-volume measurement performance using its elegant yet simple design.
- Provides the capability to do micro-volume measurement using your current laboratory spectrophotometry!

### How to use:

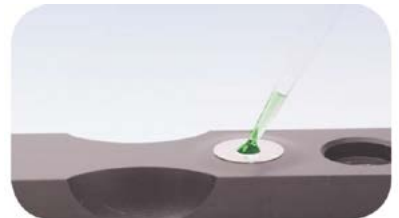
1. To load QuantiMate, simply pull apart the two magnetic halves.



2. Pipette the sample directly onto the sample reservoir



3. The two halves easily snap back into place in the correct orientation because of strong magnets securing the sample safely inside.



4. Place your QuantiMate into a uV/Vis Spectrophotometer



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## QuantiMate Technical Details

	QuantiMate 500	QuantiMate 200
Pathlength	0.5mm	0.2mm
Pathlength Accuracy	± 5 microns	
Physical size	12.5mm (w) x 12.5mm (d) x 61.0mm (h)	
Beam height (z dimension)	15mm or 8.5mm versions	
Minimum sample volume	2.5µl	0.8µl
DNA Detection limit*	1.2ng/µl	
DNA maximum concentration	3,500ng/µl	9000ng/µl
DNA reproducibility at 100ng/µl*	±1ng/µl	±2ng/µl
DNA reproducibility at 1000ng/µl*	±4ng/µl	6ng/µl
Protein detection limit*	0.06mg/ml	0.15mg/ml
Protein maximum concentration*#	100mg/µl	

\* Performance measured in typical 2nm bandwidth double beam spectrophotometer with Xenon lamp

\* BSA measured using  $A_{280}$  direct UV method. Maximum concentration limited by sample solubility

## Ordering Information

Product code	Description
80-7100-80	QuantiMate 200 and 500: 8.5mm beam beam height
80-7100-81	QuantiMate 500: 8.5mm beam height