



Hellma. Where precision becomes an art.





TrayCell Fibre-optic ultra-micro cell for UV/Vis analysis



TrayCell Unique. Precise. Flexible.

> The TrayCell is a fibre-optic ultra-micro cell designed for the UV/Vis analysis of DNA/RNA and proteins. The dimensions of the TrayCell are equivalent to a standard cuvette in order to work in most spectrophotometers.

For photometric analysis in the nanolitre range

for your spectrophotometer

Extremely flexible and cost-effective solution for the analysis of very small sample volumes (0.7 - 5 μl)

Ideal for biomolecular laboratories, to perform the analysis of nucleic acids and proteins in very small volumes



Hellma TrayCell in the cell holder of a spectrophotometer

Examples for use

Determination of purity and contents of DNA/RNA

Determination of labelling efficiency for microarray experiments (FOI)

Protein analysis (A280, BCA, Bradford, Lowry etc.)

All UV/Vis analysis utilizing the wavelength range of 190 nm to 1100 nm

TrayCell

Clear advantages for special applications

- **Excellent** reproducibility
- Quick and easy cleaning
- Simple handling
- High flexibility
- Low acquisition cost

Product features

Different light paths standard 1 and 0.2 mm

Very small measurement volumes 0.7 to 5 μl

Large dynamic range of 2 - 5000 ng/ μ l (dsDNA)*

No dilution of sample needed

No evaporation of the sample through the cap

Reuse of samples possible

Simple application and cleaning

Suitable for all current spectrophotometers

*Depending on the spectrophotometer used



High flexibility and efficiency Is possible with the TrayCell

The **TrayCell** ensures a high flexibility. It is suitable for all current spectrophotomters and it can be used also in several spectrometers in your company.





High-tech in a small device The patented functional concept

TrayCell consists of a measuring cell and a cap with integrated mirror. The sample drop is pipetted onto the measuring window, then the cap is applied. The distance between the window and the mirror in the cap ensures a defined

light path. Via the internal prism and optical fibre the light is guided upwards through the sample to the mirror, where it is reflected. Again via the optical fibre and prism, the light is guided out of the TrayCell, towards the detector.



Simple and efficient measuring

One drop is enough



1. Position the TrayCell inside the cell holder of the spectrophotometer.



4. Take off cap, retrieve sample with a pipette,

if desired.



2. Pipette sample onto the measuring window.



5. Clean the measuring window and the cap (the TrayCell remains in the spectrophotometer).





3. Fit cap. Start measurement.

6. Pipette new sample.



TrayCell Fibre-optic ultra-micro cell

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Catalogue number	105.800-UVS	105.810-UVS		and the
ltem number	105800-A3-V1-46	105810-A3-V1-46		
Window material	Quartz SUPRASIL®	Quartz SUPRASIL®	B	YLL
Width/depth	12.5 x 12.5 mm	12.5 x 12.5 mm	L	-
Height*	68.5 mm (centre height 8.5 mm) 75 mm (centre height 15 mm)	53 mm (centre height 8.5 mm) 59.5 mm (centre height 15 mm)	Hěl	ie m
	80 mm (centre height 20 mm)	64.5 mm (centre height 20 mm)	-	Į Į
Volume	0.7 - 5 μl	0.7 - 5 μl	. 11	4
Light path	0.2 mm or 1 mm (+/- 0.02 mm)	0.2 mm or 1 mm (+/- 0.02 mm)	· 7	
Max. temperature	50°C	50°C		
Centre height**	8.5 mm, 15 mm or 20 mm* (other centre heights available on request)	8.5 mm, 15 mm or 20 mm* (other centre heights available on request	105.800-UVS	105.810-U ¹
Fibre optic cable	built in, not exchangeable UV/Vis low solarisation 190 nm – 1,100 nm	built in, not exchangeable UV/Vis low solarisation 190 nm – 1,100 nm		
	(52,632 cm ⁻¹ - 9,100 cm ⁻¹)	(52,632 cm ⁻¹ – 9,100 cm ⁻¹)		

*The selection of the correct height depends on the design of the cell holder and the type of spectrophotometer. The TrayCell should extend far enough out of the holder, which also should not interfere with the cap. ** The centre height can be adjusted with the provided adapters. When ordering , please specify the necessary centre height or the make and model of the spectrophotometer.

	TrayCell Cap		Car , min				
	Catalogue number		665.703		665.704		
ltem number		665-703-1-40		665-703-0.2-40			
Description			Cap with integrated mirror to adjust the light path				
Standard light path*		1 mm		0,2 mm			
Mirror material		Quartz SUPRASIL®		Quartz SUPRASIL®			
		with aluminium mirror layer		with aluminium mirror layer			
			*Other light paths av	vailable on request.			
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