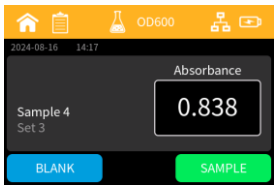
Validating Absorbance Accuracy and Reproducibility with Neutral Density Filters on the Implen OD600® Device



For Validation using the Neutral Density Glass filters, open the OD600 app on the Implen OD600® device.

Step 1: Validate Absorbance Accuracy at 1A with 666-F4

Blank against air.
Put the first certified Neutral Density Glass filter (**666-F4**) into the cuvette port. Light path is back to front. Place filter in correct position.
Press sample.
Compare results to the specified absorbance in the calibration certificate.
Tolerance is ± 0.01 A.

Step 2: Validate Absorbance Accuracy at 3A with 666-F303

Blank against air.
Put the second certified Neutral Density Glass filter (**666-F303**) into the cuvette port. Light path is back to front. Place filter in correct position.
Press sample.
Compare results to the specified absorbance in the calibration certificate.
Tolerance is ± 0.03 A.

Standard	Ident-No.	Ordinate Reading (Absorbance) ± MU(*) at the following wavelengths:				
		440 nm	465 nm	546 nm	590 nm	635 nm
666-F4	102950	1.010 ± 0.010	0.938 ± 0.010	0.950 ± 0.010	1.016 ± 0.010	0.984 ± 0.010
666-F303	E0102	3.305 ± 0.030	3.063 ± 0.030	3.005 ± 0.030	3.076 ± 0.030	2.891 ± 0.030

(*) MU: Measurement Uncertainty

Step 3: Validate Reproducibility

Blank against air.
Repeat 4 measurements with the 666-F4 filter. Tolerance is ± 0.01 A.

Step 4: Validate Baseline

Blank against air.
Repeat 4 measurements with air.
Tolerance is ± 0.002 A.

If there are any problems or questions with the IQ/OQ documentation please do not hesitate to contact the Implen Support Team: support@implen.de / +49-89-7263718-20.

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