

Schedule of Accreditation



Organisation Name	VWR International Ltd
Trading As	VWR International
INAB Reg No	18C
Contact Name	Fiona Corker
Address	Orion Business Campus, Northwest Business Park, Ballycoolin, Dublin, D15
Contact Phone No	1-8822222
Email	Fiona.corker@avantorsciences.com
Website	https://ie.vwr.com
Accreditation Standard	EN ISO/IEC 17025 C
Standard Version	2017
Date of award of accreditation	20/09/1991
Scope Classification	Metrology
Services available to the public ¹	

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Head Office	Orion Business Campus, Northwest Business Park, Ballycoolin, Dublin, D15

Scope of Accreditation

Head Office

Metrology

Category: A

Metrology field - Calibrated Device Type	Measured quantity	Calibration range	Expanded Measurement Uncertainty	Std. ref/SOP	Products	Remarks
101 Mass - .01 Precision laboratory balances	1mg to 400g (E2)	1mg - 5g, 5g - 20g, 20g - 100g, 100g - 400g	0.03mg, 0.04mg, 0.08mg, 0.31mg	CAL/PRO/01		
101 Mass - .02 Industrial balances	1g to 30kg (F1)	1g - 100g, 100g - 600g, 600g - 1000g, 1kg - 5kg, 5kg - 20kg, 20kg - 30kg	0.6mg, 1.1mg, 1.6mg, 9.6mg, 77mg, 88mg,	CAL/PRO/01		
101 Mass - .03 Industrial weighing appliances	1g to 100kg (F1), 50kg to 150kg (F1/F2)	1g - 1000g, 1kg - 5kg, 5kg - 20kg, 20kg - 60kg, 60kg - 100kg. F1/F2 : 50kg - 150kg,	1.6mg, 9.6mg, 51mg, 175mg, 259mg. F1/F2 : 0.68g,	CAL/PRO/01		

107 Temperature measuring equipment - .11 Electronic	Temperature	-40°C to 200°C	0.025°C	CAL/PRO/15		Including data loggers
108 Temperature controlled enclosures - .01 Ovens, furnaces, baths		-40°C to 1,100°C	-40°C to 180°C PT100 probes, 0.1°C Thermocouples Furnaces 250°C to 1100°C, 5.0°C, Ovens: 50°C to 260°C, 0.45°C, 260° to 325°C, 0.60°C	CAL/PRO/03		
108 Temperature controlled enclosures - .02 Incubators		-40°C to 180°C	0.1°C	CAL/PRO/03		
108 Temperature controlled enclosures - .03 Autoclaves and sterilising ovens	Temperature and Time Interval	30°C to 150°C	0.1°C (PT100) using thermocouples, 0.45°C 1.7 sec	CAL/PRO/05		
108 Temperature controlled enclosures - .04 Industrial freezers	Temperature	-90°C to -40°C	0.25°C	CAL/PRO/03		
112 Speed - .01 Centrifuges	RPM and Time interval	0 to 30000 rpm	2.6 rpm 1.7 sec	CAL/PRO/18		
116 Hygrometry - .01 Humidity testing device	Humidity and Temperature	10% to 95% and 10°C to 50°C	1.7% (10 to 80%), 2.0% (80 to 95%) for temperature range 10°C to 50°C, 0.2°C	CAL/PRO/17		Including data loggers
116 Hygrometry - .02 Environmental Chambers	Temperature and Humidity	25°C to 40°C and 20%rh to 95%rh	0.1°C and 3.0%rh	CAL/PRO/03		
118 Optical - .01 Spectrophotometers	Spectral Transmittance and Absorbance	0 to 100% T, 200 to 900nm	0.14(0 to 10%), 0.29(10 to 60%), 0.31(60 to 100%)/ 0.31nm(200 to 800nm),	CAL/PRO/02		

			0.64nm(800 to 900nm)			
118 Optical - .02 Polarimeters	Angular rotation	0 to 33.5 deg rotation	0.0021 deg rotation	CAL/PRO/07		

Calibration Measurement Capability (CMC) is expressed in terms of the following parameters:

- Measurand or reference material*
- Calibration or measurement method or procedure and type of instrument or material calibrated/measured*
- Measurement range and additional parameters where applicable*
- Measurement uncertainty.*

Measurement uncertainty shall be reported in compliance with EA 4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.

Metrology

Category: B

Metrology field - Calibrated Device Type	Measured quantity	Calibration range	Expanded Measurement Uncertainty	Std. ref/SOP	Products	Remarks
101 Mass - .01 Precision laboratory balances	1mg to 400g (E2)	1mg - 5g, 5g - 20g, 20g - 100g, 100g - 400g	0.03mg, 0.04mg, 0.08mg, 0.31mg	CAL/PRO/01		
101 Mass - .02 Industrial balances	1g to 30kg (F1)	1g - 100g, 100g - 600g, 600g - 1000g, 1kg - 5kg, 5kg - 20kg, 20kg - 30kg	0.60mg, 1.08mg, 1.63mg, 9.6mg, 65mg, 74mg	CAL/PRO/01		
101 Mass - .03 Industrial weighing appliances	1g to 100kg (F2), 50kg to 310kg (M1/F2)	1g - 1000g, 1kg - 5kg, 5kg - 20kg, 20kg - 60kg, 60kg - 100kg. M1/F2 : 50kg - 140kg, 140kg - 310kg	4.6mg, 24mg, 92mg, 281mg, 462mg. M1/F2 : 2.2g, 3.0g	CAL/PRO/01		
107 Temperature measuring equipment - .11 Electronic	Temperature	-25°C to 80°C	0.15°C to 0.3°C	CAL/PRO/19		
108 Temperature controlled enclosures - .01 Ovens, furnaces, baths		-40°C to 1100°C	0.1°C, Thermocouples: Furnaces 250°C to 1100°C, 5.0°C Ovens	CAL/PRO/03		

			50°C to 260°C, 0.45°C, 260° to 320°C, 0.60°C			
108 Temperature controlled enclosures - .02 Incubators		-40°C to 180°C	0.1°C	CAL/PRO/03		
108 Temperature controlled enclosures - .03 Autoclaves and sterilising ovens	Temperature and Time Interval	30°C to 150°C	0.1°C (PT100) using thermocouples, 0.45°C 1.7 sec	CAL/PRO/05		
108 Temperature controlled enclosures - .04 Industrial freezers	Temperature	-90°C to -40°C	0.25°C	CAL/PRO/03		
112 Speed - .01 Centrifuges	RPM and Time interval	0 to 30000 rpm	2.6 rpm 1.7 sec	CAL/PRO/18		
116 Hygrometry - .02 Environmental Chambers	Temperature and Humidity	25°C to 40°C and 20%rh to 95%rh	0.1°C and 3.0%rh	CAL/PRO/03		
118 Optical - .01 Spectrophotometers	Spectral Transmittance and Absorbance	0 to 100% T, 200 to 900nm	0.14 (0 to 10%), 0.29 (10 to 60%), 0.31 (60 to 100%)/ 0.31nm (200 to 800nm), 0.64nm (800 to 900nm)	CAL/PRO/02		
118 Optical - .02 Polarimeters	Angular rotation	0 to 33.5 deg rotation	0.0021 deg rotation	CAL/PRO/07		

Calibration Measurement Capability (CMC) is expressed in terms of the following parameters:

- Measurand or reference material*
- Calibration or measurement method or procedure and type of instrument or material calibrated/measured*
- Measurement range and additional parameters where applicable*
- Measurement uncertainty.*

Measurement uncertainty shall be reported in compliance with EA 4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.