

# Schedule of Accreditation



|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| Organisation Name                             | AccuScience (Irl) Ltd                                 |
| Trading As                                    | Accuscience Ireland Limited                           |
| INAB Reg No                                   | 309C                                                  |
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| Website                                       | http://www.accuscience.ie                             |
| Accreditation Standard                        | EN ISO/IEC 17025 C                                    |
| Standard Version                              | 2017                                                  |
| Date of award of accreditation                | 19/02/2013                                            |
| Scope Classification                          | Metrology                                             |
| Services available to the public <sup>1</sup> | Yes                                                   |

<sup>1</sup> 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 | Unit C3, M7 Business Park, Newhall, Kildare, W91 XF79 |

# Scope of Accreditation

Head Office

Metrology

Category: B

| Metrology field - Calibrated Device Type                                        | Measured quantity | Calibration range | Expanded Measurement Uncertainty | Std. ref/SOP                                                                                                         | Products    | Remarks                      |
|---------------------------------------------------------------------------------|-------------------|-------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|
| 107 Temperature measuring equipment - .09 Digital temperature indicator systems | Degrees C         | 0°C to 125°C      | 0.05°C                           | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s      | CMC using IRTD Thermometer   |
|                                                                                 |                   |                   | 0.06°C                           | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors | CMC using IRTD Thermometer   |
|                                                                                 |                   | 0°C to 5°C        | 0.16°C                           | Documented in-house procedure ACCU168 for the Calibration of                                                         | PT100s      | CMC using field thermometers |

|  |              |        |                                                                                                                      |               |                              |
|--|--------------|--------|----------------------------------------------------------------------------------------------------------------------|---------------|------------------------------|
|  |              |        | digital temperature systems with resistive type sensors                                                              |               |                              |
|  |              | 0.16°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using field thermometers |
|  |              | 0.18°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermocouples | CMC using field thermometers |
|  | -40°C to 0°C | 0.16°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s        | CMC using field thermometers |
|  |              | 0.16°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using field thermometers |
|  |              | 0.19°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with                        | Thermocouples | CMC using field thermometers |

|  |               |        |                                                                                                                      |               |                              |
|--|---------------|--------|----------------------------------------------------------------------------------------------------------------------|---------------|------------------------------|
|  |               |        | resistive type sensors                                                                                               |               |                              |
|  | 42°C to 125°C | 0.21°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s        | CMC using field thermometers |
|  |               | 0.21°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using field thermometers |
|  |               | 0.28°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermocouples | CMC using field thermometers |
|  | 5°C to 42°C   | 0.18°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s        | CMC using field thermometers |
|  |               | 0.18°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using field thermometers |

|  |                |        |                                                                                                                      |               |                              |
|--|----------------|--------|----------------------------------------------------------------------------------------------------------------------|---------------|------------------------------|
|  |                | 0.25°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermocouples | CMC using field thermometers |
|  | -90°C to 0°C   | 0.08°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s        | CMC using IRTD Thermometer   |
|  |                | 0.08°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using IRTD Thermometer   |
|  | -90°C to -40°C | 0.18°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | PT100s        | CMC using field thermometers |
|  |                | 0.19°C | Documented in-house procedure ACCU168 for the Calibration of digital temperature systems with resistive type sensors | Thermistors   | CMC using field thermometers |
|  |                | 0.21°C | Documented in-house procedure                                                                                        | Thermocouples | CMC using field thermometers |

|                                                                    |               |        |  |                                                                                        |  |                                                                                       |
|--------------------------------------------------------------------|---------------|--------|--|----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
|                                                                    |               |        |  | ACCU168 for the Calibration of digital temperature systems with resistive type sensors |  |                                                                                       |
| 108 Temperature controlled enclosures - .01 Ovens, furnaces, baths | 0°C to 50°C   | 0.24°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                    |               | 0.24°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|                                                                    | -50°C to 0°C  | 0.40°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                    |               | 0.42°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|                                                                    | 50°C to 90°C  | 0.37°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                    |               | 0.38°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|                                                                    | 90°C to 130°C | 0.36°C |  | Single and multi-point calibration using documented in-house procedure ACCU167         |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |

|                                                                              |  |               |        |                                                                                |  |                                                                                       |
|------------------------------------------------------------------------------|--|---------------|--------|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
|                                                                              |  |               | 0.36°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
| 108 Temperature controlled enclosures - .02 Incubators                       |  | 0°C to 50°C   | 0.24°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                              |  |               | 0.24°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|                                                                              |  | 50°C to 90°C  | 0.37°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                              |  |               | 0.38°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
| 108 Temperature controlled enclosures - .03 Autoclaves and sterilising ovens |  | 90°C to 130°C | 0.36°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|                                                                              |  |               | 0.36°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
| 108 Temperature controlled enclosures - .04 Industrial freezers              |  | 0°C to 50°C   | 0.24°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |

|  |  |                |        |                                                                                |  |                                                                                       |
|--|--|----------------|--------|--------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
|  |  |                | 0.24°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|  |  | -50°C to 0°C   | 0.40°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|  |  |                | 0.42°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |
|  |  | -85°C to -50°C | 0.33°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes a Radiation Effect Contribution                   |
|  |  |                | 0.38°C | Single and multi-point calibration using documented in-house procedure ACCU167 |  | Uncertainty of Measurement includes Radiation Effect and Loading Effect Contributions |

*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%.*