



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **INSTITUT PASTEUR DU CAMBODGE**

#5, PREAH MONIVONG BOULEVARD, PO BOX 983  
PHNOM PENH 120210, KINGDOM OF CAMBODIA

### **Calibration Laboratory CL-254**

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 13, 2023

Expiration Date December 1, 2025



A handwritten signature in black ink, reading 'Raj Nathan'.

**President**

IAS is an ILAC MRA Signatory

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## INSTITUT PASTEUR DU CAMBODGE

**Contact Name** Hokkean Lim

**Contact Phone** +855-12650092

*Accredited to ISO/IEC 17025:2017*

*Effective Date December 13, 2023*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

| MEASURED QUANTITY or DEVICE TYPE CALIBRATED | RANGE  | UNCERTAINTY <sup>1,2</sup> (±)  | CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)  |
|---|--|---|---|
| <i>Mechanical</i>                           |  |   |   |
| Pipette Type A                              | 10 µL to 100 µL<br>100 µL to 1000 µL   | 0.03 µL<br>0.10 µL  | Using digital precision balance & distilled water of known density as per ISO 8655-6: 2002; ISO/TR 20461: 2000            |
| Weighing Balance <sup>3</sup>               | 1 mg to 200 g  | 0.26 mg   | Using standard weight (E2 Class) as per OIML R-76-1: 2006; Euramet Calibration Guide No. 18 version 4.0: 2015             |
| Weights from M3 class up to F1 class        | 1 mg<br>2 mg<br>5 mg<br>10 mg<br>20 mg<br>50 mg<br>100 mg<br>200 mg<br>500 mg<br>1 g<br>2 g<br>5 g<br>10 g<br>20 g<br>50 g<br>100 g<br>200 g | 0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.02 mg<br>0.03 mg<br>0.03 mg<br>0.04 mg<br>0.04 mg<br>0.05 mg<br>0.08 mg<br>0.16 mg | Using E2 Class Standard Weight & Precision Balance by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1:2004 |

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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|--|------------------|--------------------------------|---|
| <i>Thermal</i>   |                  |                                |   |
| Temperature Mapping <sup>3</sup>                         |                  |                                | Using RTD sensors (Minimum 9 and Maximum 15) with Data Logger Multi Position Calibration as per FD X 15-140: 2013 |
| Volume interior ≤ 2 m <sup>3</sup>                       | -30 °C to +50 °C | 0.20 °C                        |   |
| Volume superior ≥ 2 m <sup>3</sup> & ≤ 20 m <sup>3</sup> | -30 °C to +50 °C | 1.5 °C                         |   |

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

<sup>3</sup>Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.