



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **INSTITUT PASTEUR DU CAMBODGE**

#5 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 November 8, 2021

Expiration Date December 1, 2022



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 November 8, 2021*

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

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
<i>Mechanical</i>			
Pipette Type A	10 µL to 100 µL 100 µL to 1000 µL	0.03 µL 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	0.30 mg	Using standard weight (E2 Class) as per OIML R-76-1: 2006; Euramet Calibration Guide No. 18 version 4.0: 2015
Mass (F1 and F2 Class)	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.03 mg 0.04 mg 0.05 mg 0.05 mg 0.06 mg 0.08 mg 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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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> ( $\pm$ )	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
<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 $\leq 2 \text{ m}^3$	-30 °C to +50 °C	$\pm 0.20 \text{ °C}$	
Volume superior $\geq 2 \text{ m}^3$ & $\leq 20 \text{ m}^3$	-30 °C to +50 °C	$\pm 1.5 \text{ °C}$	

<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.