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Program for Accreditation of Laboratories – Canada
Programme d'accréditation des laboratoires – Canada

National Research Council Canada | Conseil national de recherches Canada

Calibration Laboratory Assessment Service
Service d'évaluation de laboratoires d'étalonnage

Certificate of Accreditation

Certificat d'accréditation

Transcat Canada - Montréal

9900 Côte-de-Liesse, Montreal, QC H8T 1A1

having been assessed by the National Research Council of Canada (NRC), under the authority of the Standards Council of Canada (SCC), and found to conform with the requirements of ISO/IEC 17025:2017 and conditions established by SCC, and the NRC Calibration Laboratory Assessment Service (CLAS), and having demonstrated the capability of calibrating measurement instruments and standards for specific calibration and measurement capabilities, providing verified metrological traceability to the International System of Units (SI), is hereby recognized as an

ACCREDITED CALIBRATION LABORATORY

For specific measurement capabilities which are hereby CERTIFIED by CLAS

as listed in the Directory of the accredited calibration laboratories maintained by NRC and approved by SCC. The national measurement standards of Canada are realized, maintained and disseminated by NRC under the authority of the *National Research Council Act* and the *Weights and Measurements Act*. The International Committee for Weights and Measures Mutual Recognition Arrangement (CIPM MRA) is the framework through which National Metrology Institutes demonstrate the international equivalence of their measurement standards and the calibration and measurement certificates they issue. NRC, Canada's National Metrology Institute, is a participating member of the CIPM MRA

ayant fait l'objet d'une évaluation par le Conseil national de recherches du Canada (CNRC), sous l'autorité du Conseil canadien des normes (CCN) et ayant été trouvé conforme aux exigences d'ISO/IEC 17025:2017, ainsi qu'aux conditions établies par le CCN et le Service d'évaluation de laboratoires d'étalonnage (CLAS) du CNRC, et ayant prouvé ses compétences en matière d'étalonnage des instruments de mesure et des étalons, pour des aptitudes en matière de mesures et d'étalonnages spécifiques, en assurant une traçabilité métrologique au système international des unités (SI) vérifiée, est de ce fait reconnu comme étant un

LABORATOIRE D'ÉTALONNAGE ACCRÉDITÉ

CERTIFIÉ par le CLAS pour des capacités précises de mesurage

indiquées dans le Répertoire des laboratoires d'étalonnage accrédités établi par le CNRC et approuvé par le CCN. Les étalons nationaux du Canada sont établis, maintenus et émis par le CNRC en vertu de la *Loi sur le Conseil national de recherches* et de la *Loi sur les poids et mesures*. L'Arrangement de reconnaissance mutuelle du Comité international des poids et mesures (CIPM MRA) est la structure permettant aux laboratoires nationaux de métrologie de démontrer l'équivalence internationale de leurs étalons de mesure et des certificats d'étalonnage et de mesurage qu'ils émettent. Le CNRC, l'Institut national de métrologie du Canada, est un membre participant du CIPM MRA.

SCC file number: / Dossier du CCN n° : 15845

Initial accreditation date: / Date de la première accréditation: 2010-03-02

NRC CLAS Certificate No. / Numéro du certificat CNRC CLAS : 2010-01

Vice-President – Accreditation Services / Vice-président – Services d'accréditation

Issued on: / Délivré le : 2022-02-21

Director General – Metrology (NRC) / Directrice générale – Métrologie (CNRC)

The validity of this certificate, including the date of last re-accreditation and its expiry can be confirmed by the accompanying Scope of Accreditation document in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF communiqué dated April 2017).

Pour vérifier la validité du présent certificat, y compris la date de la dernière réaccréditation et la date d'expiration du certificat, consulter la portée d'accréditation qui se trouve dans le répertoire des laboratoires accrédités dans le site Web du CCN au www.ccn.ca.

Ce laboratoire est accrédité conformément à la Norme internationale reconnue ISO/IEC 17025:2017. Cette accréditation démontre la compétence technique d'un organisme pour une portée définie et l'exploitation d'un système de management de la qualité de laboratoire (cf. communiqué conjoint ISO-ILAC-IAF date d'avril 2017).

Standards Council of Canada established in 1970 — Conseil canadien des normes créé en 1970

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Canada

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Dear Valued Customer,

We are pleased to provide this letter of clarification in reference to the information on our current ISO 17025 certificates of accreditation.

Our laboratories have been audited and assessed by the National Research Council of Canada (NRC) through its Calibration Laboratory Assessment Service (CLAS). Based on the successful completion of our audits, we are confirmed as accredited by the Standards Council of Canada (SCC) who provides our ISO 17025 certificates of accreditation. These frameable paper certificates are formally issued by the Standards Council of Canada and indicate our SCC laboratory number, our CLAS certificate number, the date of our initial accreditation and the date on which the paper certificate was printed.

For the period of validity of our **current scope of accreditation**, including the **date on which the scope was issued and the expiry date**, these are published on the SCC website at scc.ca.

For the list of our full measurement capabilities, our detailed scope of accreditation is outlined on the NRC website at nrc.canada.ca in the directory of accredited calibration laboratories.

If you have any questions, please do not hesitate to contact our Quality Manager, David Llorens via email at david.llorens@transcat.ca or via telephone at 1-800-828-1470 extension 7232.

We appreciate being your trusted calibration partner, and we thank you for your business!

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 668

Legal Name of Accredited Laboratory:	**Transcat Canada - Montréal**
Contact Name:	David Llorens
Address:	9900 Côte-de-Liesse, Montréal, QC H8T 1A1
Telephone:	+1 514 631 6653
Fax:	+1 514 631 6122
Website:	www.dispersion.ca/public/en/index.php
Email:	David.Llorens@transcat.ca

SCC File Number:	15845
Provider:	NRC-CLAS
Provider File Number:	504
Accreditation Standards:	ISO/IEC 17025:2017
Clients Served:	All interested parties Some calibration services are available on-site.
Field of Calibration:	Mass Volume Thermometry
Program Specialty Area:	Calibration
Initial Accreditation:	2010-03-02
Most Recent Accreditation:	2022-02-21
Accreditation Valid to:	2026-02-21

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.
Note: This scope of accreditation is also available in French as a separately issued document.

CALIBRATION OF MEASURING AND TEST EQUIPMENT

For calibration measurement capability, please refer to the Canadian Calibration Network web page at the National Research Council of Canada. This laboratory is accredited by the Standards Council of Canada as part of the Calibration Laboratory Assessment Service (CLAS) program and is listed at nrc.canada.ca.

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice-President, Accreditation Services
Publication on: 2022-02-21

Canada

CLAS Certificate Number 2010-01

From: National Research Council Canada

Company name	**Transcat Canada – Montreal**
Company address	9900 Côte-de-Liesse Montréal, Québec H8T 1A1
Contact	**David Llorens** **Telephone**: 514-631-6653 **Fax**: 514-631-6122 **Email**: David.Llorens@transcat.ca
Clients served	• All interested parties • Some calibration services are available on-site. These services are indicated in the "Remarks" column of the following pages

Fields of calibration	• Mass • Volume • Thermometry
SCC accreditation (ISO/IEC 17025)	• Accredited Laboratory Nº (number) 668 • First issued 2010-03-02 • Issue 8.0e 2022-02-21

This scope of calibration capabilities is published by the CLAS program of the National Research Council of Canada (NRC) in close co-operation with the laboratory accreditation program of the Standards Council of Canada (SCC), Canada's accreditation body for calibration and testing laboratories. The SCC accredits the capability of the named laboratory for being able to perform the listed calibrations at the given Calibration Measurement Capability (see Supplementary **note C** and **note D**) with traceability to the International System of Units (SI) or to standards acceptable to the CLAS program.

Measured Quantity and Range or Instrument	**Calibration and Measurement Capability expressed as an Uncertainty (±) (See supplementary notes)**	**Type of Service**	**Remarks**
Mass			

25 kg	30 mg	I	One to one comparison. For the calibration of masses with traceability to the International System of Units (SI) through the primary standards of NRC and of Measurement Canada (MR-1). Calibration results are reported in terms of conventional mass as defined by the Organisation internationale de métrologie légale (OIML): "The conventional value of the value of the result of weighing a body in air is equal to mass of a standard, of conventionally chosen density (8000 kg/m^3), at a conventionally chosen temperature (20 °C), which balances this body
20 kg	20 mg		
10 kg	10 mg		
5 kg	2.5 mg		
3 kg	2.4 mg		
2 kg	2.0 mg		
1 kg	0.5 mg		
500 g	0.24 mg		
300 g	0.15 mg		
200 g	0.10 mg		
100 g	0.080 mg		
50 g	0.040 mg		
30 g	0.050 mg		
20 g	0.033 mg		
10 g	0.017 mg		
5 g	0.010 mg		
3 g	0.008 mg		
2 g	0.007 mg		
1 g	0.007 mg		
500 mg	0.004 mg		
300 mg	0.003 mg		

200 mg	0.002 mg		at this reference temperature in air of conventionally chosen density (1.2 kg/m^3)." The Calibration Measurement Capability listed relates to measurements on integral conventional standard weights. It can be achieved only if the weights being calibrated are suitable for such a measurement. Calibrations can be given in other units as required. This service is not available on-site.
100 mg	0.002 mg		
50 mg	0.002 mg		
30 mg	0.002 mg		
20 mg	0.002 mg		
10 mg	0.002 mg		
5 mg	0.002 mg		
3 mg	0.002 mg		
2 mg	0.002 mg		
1 mg	0.002 mg		
10 kg	40 mg	I	One to one comparison. On-site calibration available. Procedure : PDL-09-MG-030
20 kg	60 mg		
25 kg	70 mg		
Balances (Electronic, non-automatic) - Specific values			
1 mg, 2 mg and 5 mg	0.003 mg	II	For the calibration of balances. The

10 mg, 20 mg and 50 mg	0.003 mg
100 mg and 200 mg	0.003 mg
500 mg	0.005 mg
1 g and 2 g	0.007 mg
5 g	0.010 mg
10 g	0.019 mg

Calibration Measurement Capability listed can be achieved only if the balances being calibrated are suitable for such a measurement. The Calibration Measurement Capability is based upon the use of ASTM Class 1 reference weights. The laboratory corrects for known offsets assigned to its reference weights so that it can calibrate with uncertainties that are better than the ASTM tolerances of the weights used, in some cases. The Calibration Measurement Capability reflects the uncertainty contribution of the weights including co-variances. It also includes the repeatability and

			readability of the best balances that the laboratory calibrates routinely in the given measurement ranges. The Calibration Measurement Capabilities for measurements between 500 g and 30 kg are dominated by the performances of the best balances calibrated by the laboratory, rather than by the laboratory's reference standards and measurement processes. The uncertainty stated on the calibration report will include the uncertainty contribution of the balances that were calibrated. All values are expressed in conventional mass, as defined above.

			This service is available on-site.
Balances (Electronic, non-automatic) - Other values			
>10 g to 20 g	0.035 mg	II	For the calibration of balances. The Calibration Measurement Capability listed can be achieved only if the balances being calibrated are suitable for such a measurement. The Calibration Measurement Capability is based upon the use of ASTM Class 1 reference weights. The laboratory corrects for known offsets assigned to its reference weights so that it can calibrate with uncertainties that are better than the ASTM tolerances of the weights used, in some cases. The Calibration Measurement
>20 g to 50 g	0.10 mg		
>50 g to 100 g	0.10 mg		
>100 g to 200 g	0.15 mg		
>200 g to 300 g	0.25 mg		
>300 g to 500 g	0.35 mg		
>500 g to 1.2 kg	2.0 mg		
>1.2 kg to 8 kg	40 mg		
>8 kg to 30 kg	80 mg		

			Capability reflects the uncertainty contribution of the weights including co-variances. It also includes the repeatability and readability of the best balances that the laboratory calibrates routinely in the given measurement ranges. The Calibration Measurement Capabilities for measurements between 500 g and 30 kg are dominated by the performances of the best balances calibrated by the laboratory, rather than by the laboratory's reference standards and measurement processes. The uncertainty stated on the calibration report will include the uncertainty contribution of the

			balances that were calibrated. All values are expressed in conventional mass, as defined above. This service is available on-site.
0 kg to 60 kg	300 mg	II	On-site calibration available. Procedure : PDL-09-MG-010
60 kg to 150 kg	3000 mg		
150 kg to 500 kg	30000 mg		
500 kg to 1000 kg	60000 mg		
Piston Pipette			
0.2 µL to 2 µL	0.017 µL	II	For the calibration of single channel piston pipettes in accordance with the laboratory's calibration procedure PDL-09-MG-050. This calibration service is available on-site.
> 2 µL to 10 µL	0.021 µL		
> 10 µL to 20 µL	0.025 µL		
> 20 µL to 100 µL	0.10 µL		
> 100 µL to 200 µL	0.14 µL		
> 200 µL to 1000 µL	0.76 µL		
> 1000 µL to 5000 µL	4.4 µL		
> 5000 µL to 10000 µL	5.9 µL		
> 10000 µL to 50000 µL	7.6 µL		
2 µL to 20 µL	0.31 µL	II	For the calibration of multi-channel piston pipettes in
> 20 µL to 200 µL	0.36 µL		

> 200 µL to 1000 µL	0.76 µL		accordance with the laboratory's calibration procedure PDL-09-MG-050. This calibration service is only available in the laboratory.
Thermometry			
Infrared radiation thermometers			
-15 °C to 0 °C	0.80 °C	II	For the calibration of Infrared Temperature measuring devices at emissivity setting of 0.9 to 1 with spectral band of 8 to 14 µm using a Blackbody Source. On-site calibrations available.
0 °C to 50 °C	0.65 °C		
50 °C to 100 °C	0.70 °C		
100 °C to 120 °C	0.76 °C		
120 °C to 200 °C	0.95 °C		
200 °C to 350 °C	1.6 °C		
350 °C to 500 °C	2.1 °C		

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2022-02-24