SCOPE OF ACCREDITATION TO ISO/IEC 17043:2023

CANADIAN MICROBIOLOGY PROFICIENCY TESTING (CMPT)
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PROFICIENCY TESTING PROVIDER

Valid To: May 31, 2027 Certificate Number: 3749.01

In recognition of the successful completion of the A2LA evaluation process, this proficiency testing provider has been found to meet ISO/IEC 17043:2023, "Conformity assessment – general requirements for proficiency testing".

Accreditation is granted to this provider to provide proficiency testing schemes in the following areas:

PROGRAM NAME*	SCHEME DESCRIPTION
Clinical Bacteriology[1,2,3] 3 shipments /year	Laboratories participating in the clinical bacteriology CMPT program are separated into peer categories (A and C1) based on a recommended program-developed work-related weighted rating scale. The rating scale is based on complexity of samples processed. Individual laboratories and provincial accreditation programs decide 'best fit' for the participating laboratories. Shipments consist of up to 9 challenges (7 simulated samples, including a Gram smear ± pre- or post-analytical scenario) depending on the category of the laboratory. Category A Laboratories: Large tertiary-care laboratories that perform most clinical testing, including blood cultures, fluids, CSF, tissues, and other critical specimens. Only Category A laboratories receive all available types of samples. Category C1 Laboratories: Set-up facilities only. May perform Gram staining and address pre-analytic issues. The types of samples and bacterial isolates to be shipped are selected by the CMPT committee annually and each shipment consists of simulated clinical samples, which laboratories may receive routinely. Participants are required to report the cellular and bacterial components of the Gram smear, correctly identify the pathogens, if present, and/or report the related susceptibilities. For the pre- or post- analytical challenges, participants are given a laboratory scenario and they must choose the best answer from a list of responses provided.
***Clostridioides difficile* assay**[1,2] 2 shipments /year	The *Clostridioides difficile* program is designed for the detection of common antigen and/or toxin in stool samples. The samples can be tested by culture, enzyme immunoassay and molecular methods. The program consists of 2 simulated stool samples. Participants are required to report "positive" or "negative" for the presence of the common antigen and/or toxin.

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PROGRAM NAME*	SCHEME DESCRIPTION
Supplementary Gram Smears[1,2] 2 shipments /year	The Supplementary Gram Smear program consists of 2 slides for Gram staining (2 simulated fluid samples, usually cerebrospinal, joint fluid gram smear). Participants are required to report the cellular and bacterial components of the slides.
Enteric Parasitology[1,2] 2 shipments /year	This program is intended for laboratories performing enteric parasitology tests by conventional microscopic analysis. Shipments consists of 4 SAF (sodium acetate-acetic acid-formalin) preserved stool samples. Participants are required to report any helminths and/or protozoa present in the concentrate and/or the direct, stained smear.
Mycology Plus[1] 2 shipments /year	This program consists of 5 Mycology samples (consisting of yeasts, dermatophytes, molds, fungi) and 4 fungal smears. Participants are required to report the identity of the yeast, dermatophyte, mold and/or fungus in each of the samples and/or report any applicable anti-fungal susceptibilities. Participants are also required to report "positive" or "negative" for the presence of hyphae/pseudohyphae in the fungal smears.
Water Microbiology[3] 3 shipments /year	The CMPT Water Microbiology Program is intended primarily for laboratories performing drinking/recreational water assessments. Samples are simulated stabilized waters that can be assessed by using membrane filtration, enzyme substrate, MPN, and Presence/Absence methods. Drinking Water Program: Participants are required to identify and enumerate total coliforms, thermotolerant coliforms and *E.coli* and Heterotrophic Plate Counts, in drinking water samples. Shipments consist of 4 samples. Testing methods used by the participants include Membrane Filtration, Enzyme Substrate, Most Probable Number (MPN), Presence/Absence and Heterotrophic Plate Count (HPC). Recreational Water Program: Participants are required to identify and enumerate *Enterococcus faecalis* in simulated marine water samples, *Escherichia coli* in freshwater beach samples and *Pseudomonas aeruginosa in* spa/swimming pool water samples. Shipments consist of 3 samples. Testing methods used by the participants are membrane filtration and enzyme substrate. Heterotrophic Plate Count: Participants are required to enumerate *Escherichia coli* and *Enterobacter* species in simulated drinking water samples. Shipments consist of 3 samples. Testing methods used by the participants are membrane filtration and enzyme substrate.
Soil/Sludge[1,3] 2 shipments /year	This program is intended primarily for environmental laboratories performing soil/sludge testing for S*almonella* species. Samples are simulated soil sludge matrices that can be assessed by using membrane filtration, enzyme substrate, MPN, and Presence/Absence methods. Labs must quantify the CFU's. Each shipment consists of 2 samples.

PROGRAM NAME*	SCHEME DESCRIPTION
***Trichomonas vaginalis* Antigen[1]** 2 shipments /year	The program's objective is to provide EQA to those laboratories performing laboratory diagnosis of trichomoniasis using the OSOM *Trichomonas* Rapid Test (Sekisui Chemical Co) or molecular methods. Each shipment has 6 samples. Participants are required to report if the samples are "positive" or "negative" for *Trichomonas vaginalis* antigen.
Screening and Molecular[1] 2 shipments /year	The program is designed for laboratories that use screening (eg. Chromogenic agar) molecular methods to detect the presence of MRSA, VRE, CRE, group B and group A S*treptococcus*. Four samples of each type are sent in each shipment. Participants can participate in one, any combination of or all of the types of the samples. Participants are required report "positive" or "negative" for each of the 5 types of samples.
Shiga Toxin[1] 2 shipments /year	The program's objective is to provide EQA to those laboratories performing testing to detect organisms producing Shiga toxin. Three simulated stools samples are in each shipment. Methods that can be used are culture, toxin or molecular methods. Participants are required to report "positive" or "negative" for the presence of Shiga toxin.
Acid-Fast Bacilli[1] 2 shipments /year	The program's objective is to provide EQA to those laboratories performing testing to detect organisms that are acid-fast. Acid-fast stains are used so that bacilli, if present, that can resist the acid in the method, can be observed microscopically. Each shipment has 5 samples. Participants are required to report "positive" or "negative" for the presence of acid-fast bacilli.
Enteric Panel[1] 2 shipments /year	The program's objective is to provide EQA to those laboratories performing testing to detect the presence of *Salmonella, Shigella* species, toxigenic *E.coli*, *Yersinia* species, *Campylobacter, Aeromonas, Vibrio* species using Multiplex PCR. Each shipment has 4 simulated stool samples. Multiplex PCR panels and/or culture methods can be used. Participants are required to report the presence of one of the above pathogens or absence of the above pathogens
Gastrointestinal Panel Program 2 shipments/year	The program was created to provide EQA to laboratories that perform testing to detect gastrointestinal pathogens (bacterial, parasites and viruses) using PCR or molecular methods There are 8 samples per shipment. Participants are required to report the presence of a gastrointestinal pathogen.

PROGRAM NAME*	SCHEME DESCRIPTION
Respiratory Virology Program 2 shipments/year	The program's objective is to provide EQA to those laboratories or testing facilities performing testing to detect the antigen or RNA of Covid 19 (Sars-Cov2), Influenza A and B and RSV (Respiratory Syncytial Virus). Each set of viruses consists of 4 samples. Participants are required to report positive/negative for each virus.
Cannabis Microbiology Program 2 shipments/year	The objective is to provide EQA to laboratories performing testing to detect the presence of bacteria/coliforms in simulated cannabis flower, candies and oil. For the flower and candy simulated products, the bacteria are to be identified and colony forming units are to be reported. For the oil simulated product, the bacteria are to be identified and the count is to be reported present or absent. There are 3 samples for the flower and candy simulated products and there are 2 samples of the oil simulated product.
Blood Culture Screen Program 2 Shipments/year	This program providers proficiency testing to laboratories screening blood culture samples. This program is geared to laboratories that screen blood cultures samples and refer when the sample is flagged positive by the instrument.
Sexually Transmitted Infections Program 2 shipments/year	This syndromic panel program provides proficiency testing to laboratories screening for the presence of *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, and *Trichomonas vaginali*s by molecular methods.

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* Procedure used to determine the Assigned Value:

[1] Assigned Values are determined by known values with results determined by specific proficiency test item formulation (e.g. manufacture or dilution).

[2] Assigned Values are determined by consensus values from expert participants.

[3] Assigned Values are determined by consensus values from participants.