



Canadian
microbiology
proficiency
testing

EQA Programs

Catalog

2023



THE UNIVERSITY
OF BRITISH COLUMBIA

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ISO 9001:2015

CMPT achieved ISO9001 certification in 2002 but recognizes that the process of inspection and measure and assessment, and opportunities for improvement is a continuous one and thus, since then, CMPT has maintained international recognition to quality management standards, which is our continued commitment and goal.



ISO 17043:2010

Our ISO 17043 accreditation was performed by the American Association for Laboratory Accreditation (A2LA) in 2015. By its voluntary participation in this accreditation assessment, CMPT affirms its continued participation in the international community of proficiency testing providers.

Laboratories that work with CMPT can have continued confidence in the rigour of our commitment to our own quality and to the quality needs of our participants.



We are constantly reviewing and updating our offerings to better support laboratories. To get the latest updates on our programs, courses, and events, follow us on LinkedIn or sign up for our newsletter.

cmpt.ca/contact

Dear quality partner,

Thank you for your interest in the products and services offered by the Canadian Microbiology Proficiency Testing Program (CMPT). First created in 1982, CMPT is a not for profit proficiency testing service run from the Department of Pathology and Laboratory Medicine at the University of British Columbia in Vancouver, Canada. We have been practicing our values of Innovation, Education, Quality Assessment and Continual Improvement for over 40 years.

As you will find in this product catalog, CMPT offers several external quality assessment programs (EQA) and proficiency testing (PT) schemes in all the major disciplines of microbiology. Our customers include clinical, environmental and industry-focused testing laboratories and sites performing point of care testing for infectious diseases. CMPT also supplies PT samples to third party EQA providers and can work with distributors to design and implement customized samples and schemes.

We are a peer-driven program deeply rooted in our educational values and the quality standards to which our customers conform. Practically, this means our programs provide laboratories with lifelike simulated samples to work with such as clinical specimens (e.g. blood cultures), environmental samples (e.g. drinking water), and product samples (e.g. cannabis). Detailed critiques for each challenge are written by committee consensus and provided to our customers with an opportunity to view their own performance within the testing group through a secure web portal.

Our proficiency testing challenges are formulated in our laboratory and we pride ourselves on our attentive customer service. By providing our customers with the best products and services, we help them to ensure they are providing their best quality service for public and patient health and safety.

On behalf of the entire CMPT team, thank you for your interest in CMPT. We look forward to working with you.

Sincerely,



Lucy A Perrone, MSPH, PhD

Donald B. Rix Professor of Laboratory Quality

Chair, Canadian Microbiology Proficiency Testing Program (CMPT)

Associate Professor, Department of Pathology and Laboratory Medicine

The University of British Columbia, Vancouver, Canada



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Did you know we have a newsletter?

We send monthly news about new programs and courses, as well as quarterly updates that include research publications by CMPT staff. You can read previous issues and subscribe on our website: cmpt.ca/publications-newsletter/

EQA Programs

What is Proficiency Testing?

and why should testing sites participate?

Proficiency Testing (PT) is one form of external assessment of laboratories to ensure their ability to perform to the level of competence and quality required.

PT programs evaluate the ability of a testing laboratory to process, analyze, and report a specific sample with a known target analyte but unknown to the testing laboratory. PT providers send real or simulated samples to participant laboratories, laboratories analyze the samples for a specific analyte, and send their results back to the PT provider. The PT provider then compares the results to the reference or expected result and returns individual reports with the laboratory performance and collates the results from all participants allowing them to compare their performance to other participants.

PT allows a laboratory's performance to be assessed in comparison to reference methods and to other peer laboratories and can provide external authorities with evidence about the quality and competence of laboratories/testing sites in performing their tasks.

All laboratory testing requires consistent and objective quality assurance oversight and evaluation to ensure test results are accurate, timely, and reliable and help prevent unnecessary harm to the population.

EQA providers have a unique and critical role to play in testing quality oversight and assurance. By working in collaboration and partnership with health authorities and key stakeholders, an EQA partner can help support public health.

Accurate sample testing is critical for effective decision making and testing data significantly influences public health as we have observed across the world during the COVID-19 pandemic and the rapid scale up of diagnostic testing and screening.

Our experience as an ISO 17043- accredited EQA provider, supporting the quality assurance during rapid scale up of COVID-19 testing and screening in Canada demonstrates this enormous value, especially when a myriad of testing methods and testing site types are employed.

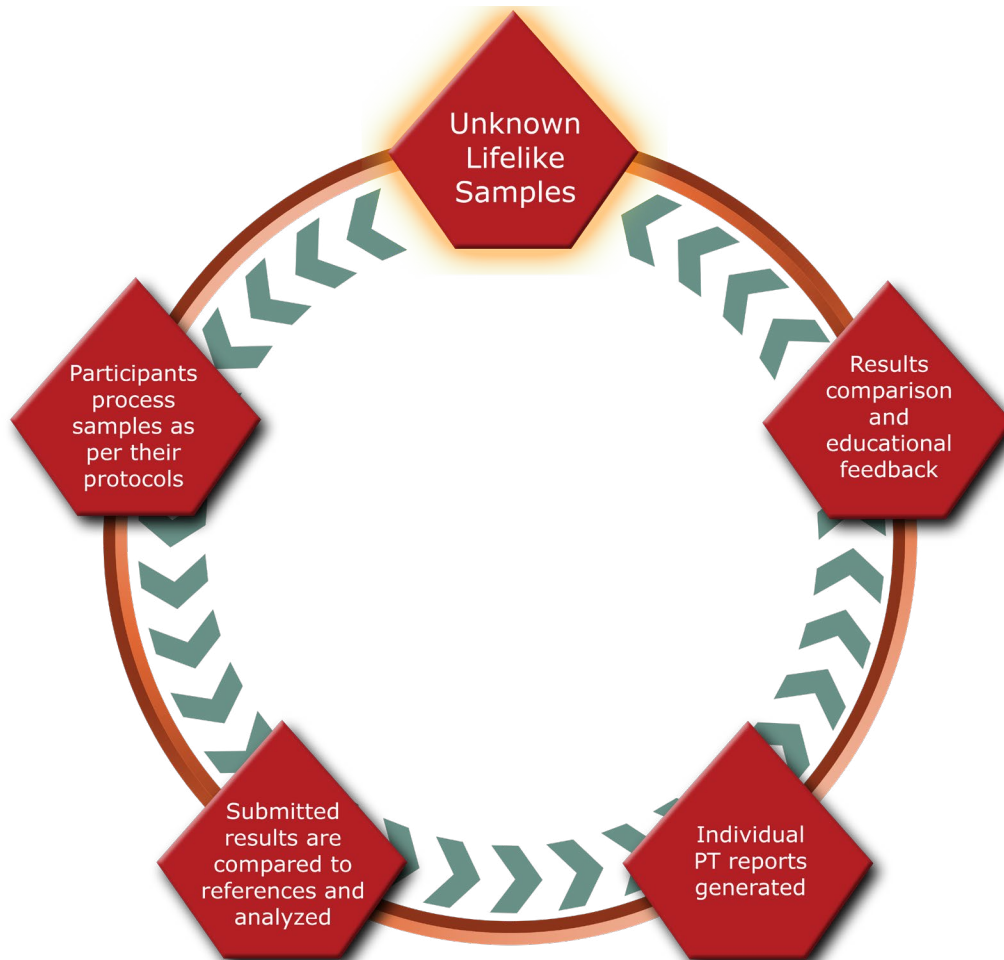
Why should my lab participate in an PT program?

Regardless of industry regulation, enrolment in a PT program has invaluable benefits for the participant laboratories/testing sites:

- Provides value as a quality indicator
- Instills confidence in the quality of a laboratory's performance
- Provides educational opportunities
- Serves as a tool for evaluation of staff competency
- Allows peer group comparisons of test results within a particular method and between different analytical methods

While PT reveals weaknesses in the testing process, it also allows laboratories to implement corrective actions that help strengthen their quality system and thus, improve the quality of their results and services.

Ultimately, EQA is a valuable tool for Quality Improvement ONLY if it is applied for change.



CMPT's Proficiency Testing Process

Sample preparation

PT samples are prepared in our lab by our expert technical staff. Samples go through a rigorous stability and homogeneity testing before they are sent to our participants.

Shipping

Samples are shipped to our customers. All shipments include processing and reporting instructions in addition to any other relevant information regarding the samples (case histories, worksheets, etc.). Testing

Participants analyze the samples using their own methods and protocols.

Results submission

Results are reported within a specified deadline through CMPT's members only easy to use data entry portal.

Results analysis

Submitted results are compared with reference and/or consensus results. Scoring/grading of results is performed based on a published grading scheme for each program.

Reports Issued

Individual result letters demonstrating the laboratory performance are posted on CMPT's member portal so they can be accessed at any time. In addition, an aggregate report is issued for all programs participants with inter laboratory comparison of results; educational comments on results are included and for Clinical Bacteriology, Mycology, and Parasitology programs, extensive educational critiques with comments by discipline expert committees are generated.

Sample quality certification

We close every PT study by documenting the stability and homogeneity of every sample to make sure the sample was performing as intended when your lab analyzed it.

PT Samples

CMPT samples are intentionally designed to mimic clinical samples and account for a myriad of testing methods that may be employed at testing sites.

Our samples are realistic, not lyophilized, often incorporate complex flora, and to the extent possible, look and act like true samples, so that they can be handled and processed as usual as possible.

Paper/Video challenges

In recent years, the increasing interest in quality improvement and patient safety has made laboratories increasingly aware that focusing only in the analytical phase is not enough, and that the assurance of quality has to be extended throughout the total testing process.

Most EQA schemes do not tend to look at how laboratories handle improper containers or transport, compromised samples, mislabeled samples and neither do they address the appropriateness of the final report. Are the negative samples or contaminated reported as such? Are complex samples referred? Are the reports reaching the right patient or physician?

CMPT introduced the Paper Challenge (PC) and Video Challenge (VC) as PT tools to further evaluate the extra-analytical phase. These challenges are created through a process that involves the selection of a topic, the description of a scenario, the design of possible answers, and the selection of the best response and unacceptable ones. Group analytics is applied and an informative critique with results and inter-laboratory comparison is written. The whole process is carried out by the CMPT's Advisory Committee.

CMPT Technical Committees

Challenges for all programs are not at the sole discretion of CMPT staff or management. Sample selections including appropriate microbial identification, susceptibility profile, concentration (where relevant) and clinical relevancy are performed annually by CMPT area committee members.

Canadian Microbiology Proficiency Testing (CMPT) is a university based, peer directed program. Committee members volunteer their time and are essential for developing the program, selecting challenges, assessing results, and creating educational critiques. The time and efforts of the committee members are critical to the function of CMPT and are much appreciated.

We have active committees for our Clinical programs: Bacteriology, Mycology, Enteric Parasitology, and Virology, and receive technical assistance and advice from our Water Program chair. All members in all committees are actively involved in programmatic review and critique development.

Technical committees play an important role in informing CMPT of new technologies, guidelines, and laboratories' needs, changing policies or testing landscape so CMPT can adjust samples, programs, formulations to satisfy those needs.

CMPT recognizes the valuable role that our committee members contribute. We receive the benefit of their time, knowledge, and expertise. All is appreciated.



Our expert committee members work in labs and hospitals across Canada.

Clinical Microbiology

Clinical Bacteriology (CB)

\$248.64 - \$2162.52

1 smear for Gram staining, 1 paper/video challenge, 1 to 5 samples for culture / shipments
4 shipments per year

This program covers a wide variety of samples normally received by laboratories for bacteriology culture, identification, susceptibility testing, and Gram staining as well as a paper (PC) or video (VC) challenge that targets extra analytical issues in the laboratory. The program is adaptable to different laboratory complexities:

CB-A: for large laboratories that process more complex samples such as fluids, blood cultures, deep wound, tissues and complex anaerobic cultures in addition to the challenges sent to less complex laboratories.

CB-B: for intermediate laboratories that may not perform all critical specimen types, including blood cultures.

CB-C: for small laboratories that process urines, throat, and genital samples and refer the rest.

CB-C1: for laboratories only performing Gram stains.

Program	Gram	PC/ VC	S-1	S-2	S-3	S-4	S-5
CB-A	•	•	•	•	•	•	•
CB-B	•	•	•	•	•		
CB-C	•	•	•				
CB-C1	•	•					

Supplementary Gram Program (GS)

\$146.44

Available only to laboratories subscribed to Clinical Bacteriology

2 additional smears for Gram staining per shipment
2 shipments per year

The samples included in this program simulate mainly cerebrospinal fluid (CSF) and joint fluid samples and is intended to be complementary to the Gram slides included in the Clinical Bacteriology program.

This program is particularly beneficial to small laboratories that receive sterile fluids for Gram staining and want to keep personnel proficient in interpreting results.

Shipment dates	CB	GS	Due date*
May 8, 2023	•		May 23, 2023
Aug 14, 2023	•	•	Aug 28, 2023
Nov 6, 2023	•		Nov 20, 2023
Feb 12, 2024	•	•	Feb 26, 2024



Package containing a slide for Gram staining.

*due dates are subject to change; specific dates will be announced with the shipment

Program fees

Program	Description	Shipments/year	Price
CB-A	Full year subscription	4	\$2162.52
CB-B	Full year subscription	4	Contact cmpt
CB-C	Full year subscription	4	Contact cmpt
CB-C1	Full Year Subscription	4	\$248.64
Supplementary Gram Smear	Only with Clinical Bacteriology full subscription	2	\$146.44



Simulated bronchial wash sample from a Clinical Microbiology sample shipment.

Clostridioides difficile

\$334.66

2 simulated stool samples per shipment
2 shipments per year

This program provides proficiency testing to laboratories investigating *C. difficile*. Samples are simulated stools that can be used to determine *C. difficile* common antigen, toxins, and toxin genes by any available method.

Shipping Dates	Survey	Due Date*
May 8, 2023	CT2305	May 23, 2023
Nov 6, 2023	CT2311	Nov 20, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Enteric Parasitology

\$1184.38

3 samples per shipment
3 shipments per year

This program is intended for laboratories performing enteric parasitology tests by conventional microscopic analysis. Samples are actual clinical samples fixed in formalin solution.

The amount of sample provided is enough for laboratories to perform **concentration techniques** and to prepare **permanent stained slides**.



Stool Sample.

Shipping Dates	Survey	Due Date*
Apr 10, 2023	PA2304	May 1, 2023
July 4, 2023	PA2307	July 24, 2023
September 25, 2023	PA2310	October 15, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Enteric Parasitology - Molecular

\$1184.38

- 3 samples per shipment
- 3 shipments per year

This program is intended for laboratories performing enteric parasitology tests by molecular testing. Samples are actual clinical fresh (Cary Bair) samples that are suitable to test by molecular methods.

Shipping Dates	Survey	Due Date*
Apr 10, 2023	MPA2304	May 1, 2023
July 4, 2023	MPA2307	July 24, 2023
September 25, 2023	MPA2310	October 15, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Mycology

\$759.42

- 3 simulated fungal slides for direct examination
- 3 simulated samples for culture and identification
- 3 shipments per year

This program is intended for laboratories processing a variety of clinical samples, performing culture, and identification of molds, dermatophytes, and yeasts.

This program covers a wide variety of samples normally received by laboratories for culture, identification, susceptibility testing, and direct examination. The program is adaptable to different laboratory complexities..

Full year subscription. 3 samples for culture, identification, and susceptibility testing plus 3 slides for direct examination per shipment.



Simulated urine sample.

Fungal Slides

\$239.50

3 simulated fungal slides for direct examination
3 shipments per year

This program is for laboratories that only process slides for direct examination by KOH or Calcofluor White using microscopy only.

Shipping Dates	Mycology Plus	Fungal Slides	Due Date*
April 3, 2023	MY2304	MY2304ABC	May 15, 2023
August 1, 2023	MY2308	MY2308ABC	September 12, 2023
November 20, 2023	MY2311	MY2311ABC	January 1, 2024

*due dates are subject to change; specific dates will be announced with the shipment

Acid Fast Bacilli (AFB)

\$364.52

3 slides for staining per shipment.
3 shipments per year

This program is suitable for laboratories performing Acid Fast stains to detect Acid Fast Bacilli in clinical samples. Microscopy only.

Shipping Dates	Survey	Due Date*
April 10, 2023	AFB2304	May 2, 2023
July 4, 2023	AFB2307	July 25, 2023
September 25, 2023	AFB2309	October 14, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Trichomonas vaginalis

\$526.78

4 samples per shipment
3 shipments per year

This program provides proficiency testing to laboratories detecting the presence of *Trichomonas vaginalis* in clinical samples. Simulated samples are suitable to detect *Trichomonas vaginalis* by antigen or nucleic acid detection methods.

Shipping Dates	Survey	Due Date*
Apr 10, 2023	TR2304	May 1, 2023
July 4, 2023	TR2307	July 24, 2023
September 25, 2023	TR2310	October 15, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Shiga Toxin

\$857.59

3 samples per shipment
2 shipments per year

This program provides proficiency testing to laboratories detecting the presence of Shiga Toxin-producing organisms. Samples are simulated stools that can be used to determine the presence of Shiga Toxin by any available method.

Samples can contain O157 H:7 and non-O157 H:7 Shiga Toxin producing *Escherichia coli*

These samples are shipped as Category A, UN2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS

Shipping Dates	Survey	Due Date*
May 8, 2023	ST2305	May 23, 2023
Nov 6, 2023	ST2311	Nov 20, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Screening/Molecular

\$341.85

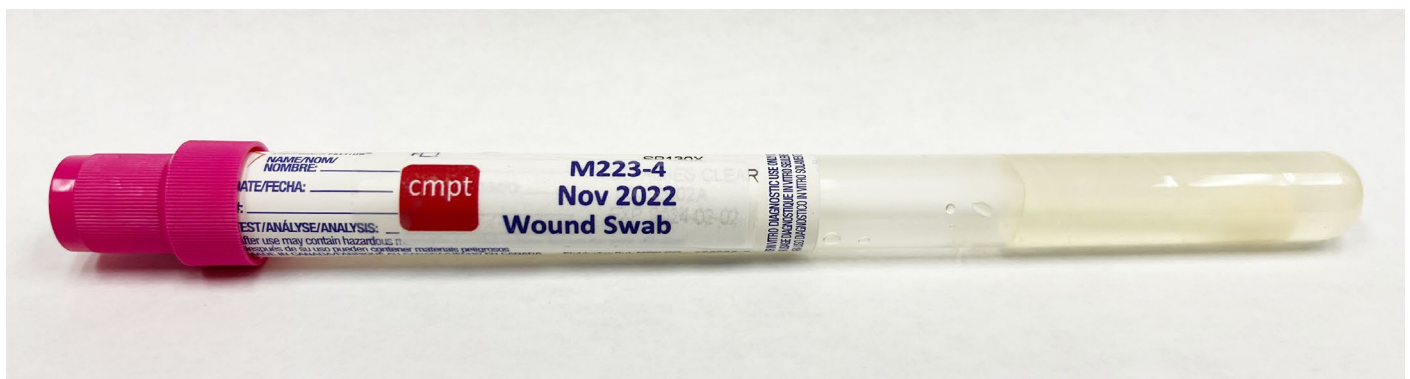
4 simulated swab samples per shipment, for each program
2 shipments per year

This program provides proficiency testing to laboratories screening for the presence of methicillin-resistant *Staphylococcus aureus* (MRSA), vancomycin-resistant *Enterococcus* (VRE), group B streptococcus, group A streptococcus, and carbapenem resistant *Enterobacterales* (CRE) by culture and/or molecular methods.

Program	Description	Samples	Price
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>	4 swabs per shipment	\$341.85
VRE	Vancomycin-resistant <i>Enterococcus</i>	4 swabs per shipment	\$341.85
CRE	Carbapenem resistant <i>Enterobacterales</i>	4 swabs per shipment	\$341.85
GBS	Group B Streptococcus	4 swabs per shipment	\$341.85
GAS	Group A Streptococcus	4 swabs per shipment	\$341.85

Shipping Dates	Program	Due Date*
April 24, 2023	MRSA, VRE, CRE, GBS, GAS	May 08, 2023
August 21, 2023	MRSA, VRE, CRE, GBS, GAS	Sep 04, 2023

*due dates are subject to change; specific dates will be announced with the shipment



Simulated wound swab.

Enteric Panel

\$578.14

4 simulated samples per shipment
2 shipments per year

This program provides proficiency testing to laboratories investigating *Salmonella*, *Shigella*, *Yersinia*, *Campylobacter* species, *Vibrio* species, *Aeromonas* species, and *Escherichia coli* O157 H7 by multiplex PCR or other molecular methods.

Shipping Date	Survey	Due Date*
April 24, 2023	EP2304	May 08, 2023
August 21, 2023	EP2308	Sep 04, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Virology

COVID-19

\$600

4 samples per shipment
3 shipments per year

This program provides proficiency testing to facilities performing testing on nasopharyngeal swabs for SARS CoV-2 (COVID-19). Samples contain inactivated virus and are suitable for all testing methodologies.

COVID-19 Verification Panel

\$375

A 15-sample verification panel is available for laboratories that need to comply with accreditation bodies requirements.

If you need more information about the Verification Panel, please contact CMPT.

Respiratory Panel (Influenza A, Influenza B, RSV)

\$700

3 sets of 3 simulated nasopharyngeal samples per shipment

3 shipments per year

Influenza A and B samples are suitable for nucleic acid and antigen testing; RSV samples are suitable for nucleic acid testing only.

Shipping Dates	Program	Due Date*
March 06, 2023	Covid-19, Respiratory Panel	March 20, 2023
July 17, 2023	Covid-19, Respiratory Panel	July 31, 2023
Nov 14, 2023	Covid-19, Respiratory Panel	Nov 28, 2023

*due dates are subject to change; specific dates will be announced with the shipment

Save \$400 when purchasing COVID-19 and Respiratory panel together! (\$900)

Environmental Microbiology

Challenges are directed towards detection, enumeration and identification of water/soil safety indicator organisms. Samples are simulated stabilized water that can be assessed by membrane filtration, MPN, or other assays.

Drinking Water

\$1691.20

1 set of 4 samples per shipment
3 shipments per year

This program provides proficiency testing to laboratories testing drinking water for the presence of fecal coliforms and *Escherichia coli*.

Additional Drinking Water sets are available per shipment for laboratories.

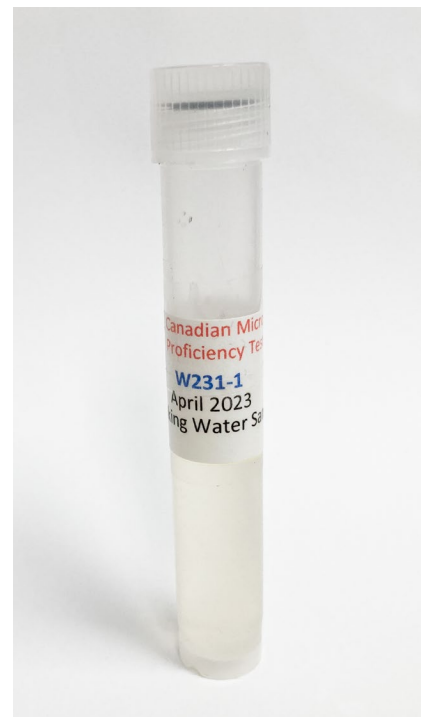
\$385.76/set

Drinking Water for HPC

\$485.22

1 set of 4 samples per shipment
3 shipments per year

This program provides proficiency testing to laboratories performing detection of heterotrophic count (HPC) of organisms in drinking water



Simulated drinking water sample.

samples.

Recreational Water

\$598.79

1 set of 3 samples per shipment

2 shipments per year

This program provides proficiency testing to laboratories testing recreational (beach and pool) waters for the presence of potential pathogens (*Pseudomonas aeruginosa*, *Enterococcus*, *Escherichia coli*)

Additional Recreational Water sets are available per shipment for laboratories

\$288.73/set

Sediment

\$595.73

1 set of 5 samples per shipment

2 shipments per year

This program provides proficiency testing to laboratories testing marine beach sediment for the presence of *Enterococcus* species.

Soil

\$350.53

1 set of 2 samples per shipment

2 shipments per year

This program provides proficiency testing to laboratories testing soil for the presence of *Salmonella* species.

Shipping dates	Drinking Water	HPC Water	Recreational Water	Sediment	Soil
April 03, 2023	•	•	•		
April 25, 2023				•	•
July 10, 2023	•	•			
August 25, 2023			•		
September 26, 2023				•	•
October 23, 2023	•	•			

Cannabis Microbiology

Cannabis Microbiology

\$900

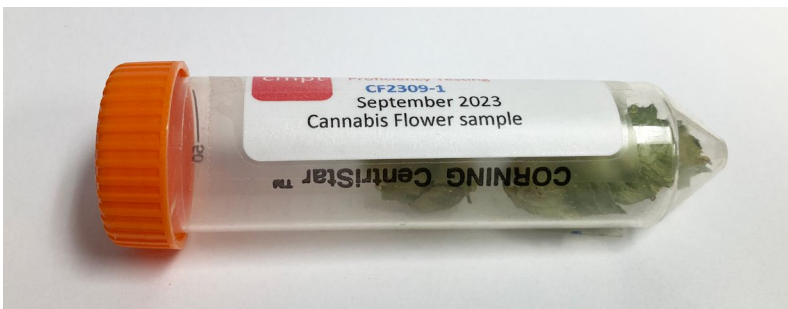
- 2 simulated Cannabis oil samples
- 2 simulated Cannabis flower samples
- 3 simulated Cannabis edible (assorted candy) samples
- 2 shipments per year

This program provides proficiency testing samples for laboratories testing for the presence of microorganisms in Cannabis oil, plant, and edibles.

Our samples are suitable for different methods such as spread plate method and membrane filtration. Samples are stable at room temperature and easy to process.

Note: To order this program, please [contact us](#).

Matrix	Organisms	Quantitative	Presence/ Absence
Oil	<i>E. coli</i> , non- <i>E. coli</i> coliforms		•
Leaves/flowers	<i>E. coli</i> , non- <i>E. coli</i> coliforms	•	•
Candy (assorted)	<i>E. coli</i> , non- <i>E. coli</i> coliforms, <i>Salmonella</i> spp.	•	•



Simulated cannabis flower sample.



Simulated cannabis leaves sample.

Continuing Education

CMPT adheres to the philosophy that as a university-based program, in addition to providing support for accreditation and regulatory specifications, there exists a mandate for CMPT to support continual improvement and continuing education and to provide a platform to support academic pursuits.

In line with this philosophy, CMPT brings several opportunities for continual improvement to the laboratory staff through continuing education courses offered by CMPT or our sister program, Program Office for Laboratory Quality Management (POLQM)

CMPT's Professional Development Course

Through this course, laboratory technologists can learn relevant and practical information about different clinical microbiology scenarios through the reading of the challenge critiques and completing online quizzes.

More info: <https://pd.cmpt.ca/about/>

Antibiotic susceptibility testing and interpretation

Completely online, 12 week, asynchronous, mentored, discussion based UBC Certificate course, to provide students with an understanding of the core principles of AST and its interpretation. Geared to practicing laboratory technologists and microbiologists.

More info: [Antimicrobial Susceptibility Testing and Interpretation | Program Office for Laboratory Quality Management \(ubc.ca\)](#)

UBC Certificate for Laboratory Quality Management

The Laboratory Quality Management certificate course is a completely on-line 22-week course designed to provide knowledge, discussion, and expertise for those interested in quality management for clinical and research laboratories.

The course is highly valuable for those who are or intend to be laboratory quality managers, and for those that work with quality management issues.

It is appropriate for technologists, physicians, administrators, and other laboratory professionals.

Our course has attracted students from across Canada and around the world.

More info: [Course Description | Program Office for Laboratory Quality Management \(ubc.ca\)](#)

ISO15189:2022 – What labs need to know about the changes

Self-paced, completely online course, consisting of 4 sequential modules explaining the changes of the newly released ISO15189:2022 edition of the standard. Learn about the changes, implementation, and major differences with the previous editions.

More info: [ISO 15189:2022 What labs need to know about the changes - Program Office for Laboratory Quality Management \(POLQM\) \(ubc.ca\)](#)

Continuing Education Credits

All our courses have been assigned PEP (Professional Enhancement Program) hours and CPS (Continual Professional Studies) Credits by the Canadian Society for Medical Laboratory Science (CSMLS).

AMERICAN SOCIETY FOR CLINICAL PATHOLOGY (ASCP)

All our courses meet the criteria for ASCP CMP (Credential Maintenance Program) points.

International EQA Training Program

The International EQA Training Program is intended for laboratory professionals that are interested in implementing EQA programs in their communities.

CMPT, an ISO 170043 accredited and ISO 9001 certified program has provided education and training in EQA to participants from different parts of the world including Thailand, Zimbabwe, South Africa, Kenya, Belgium, Oman, Saudi Arabia, Turkey, and China.

The focus of this training is on External Quality Assessment, Internal Design, Internal Audits, Creation of Simulated Samples for Clinical Microbiology.

The format of the training will be discussed with the applicants to decide the most appropriate for each situation.

Please [contact CMPT](#) for more information.

Ordering PT

You can order PT programs conveniently and securely through our online order form at cmpt.ca/ordering-information, or by contacting us directly using the contact information below.

If you would like to order the Cannabis Microbiology program, please contact us.

Don't find what you are looking for?

CMPT can accommodate a wide range of requests. If your lab needs a product that is not listed in our catalogue, we would be happy to discuss your needs and propose a solution that works for you. Please [contact us](#) so we can assist you further.

Phone: 604-827-1754

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