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CRM: A reference material characterized by a metrologically valid procedure for one or more specified properties, accompanied by a reference material certificate that provides the value of the specified property, its associated uncertainty, and a statement of metrological traceability.

A complete listing of ERA's CRMs can be found on our Scope of Accreditation for general requirements for competence of reference material producers available at www.eraqc.com/AboutERA/Accreditations.

PT: A Proficiency Test (PT) is an analysis of what is often referred to as a blind sample or a sample with unknown concentrations of analytes for the purpose of evaluating a laboratory's analytical performance.

QR: Similar to a Proficiency Test, a QuiK Response (QR) is a sample with unknown concentrations. However, unlike a scheduled PT, QR is on-demand and available at any time. Plus, your results are returned within two business days. QuiK Response can be used as a bilateral PT as referenced in the IUPAC/CITAC guide: Selection and use of PT schemes for a limited number of participants – chemical analytical labs.

RM: A material, sufficiently homogeneous and stable with respect to one or more specified properties, which has been established to be fit for its intended use in a measurement process.

Description	CRM	PT	QR	Page
Enterococci	081	880 Q	787QR	34
Heterotrophic Plate Count (WP)		935 B		34
Heterotrophic Plate Count (WS)	084	079 M	084QR	34
Massachusetts Ground Water Enterococci	081	077 *	–	34
Potable Water Coliform Microbe	694	080 M	085QR	34
Source Water Microbe	078	595 Q	078QR	34
Source Water Microbe - 9221	078A	595A Q	078AQR	34
Wastewater Coliform Microbe	083	576 M	786QR	34
Wastewater Coliform Microbe - 9221	083A	576A M	786AQR	34

Water Supply PT Schedule 2022

Water Supply			
	Scheme #	Opens	Closes
Q	WS 306	Jan 10	Feb 24
	WS 307	Feb 7	Mar 24
	WS 308	Mar 7	Apr 21
Q	WS 309	Apr 4	May 19
	WS 310	May 9	Jun 23
	WS 311	Jun 6	Jul 21
Q	WS 312	Jul 11	Aug 25
	WS 313	Aug 8	Sep 22
	WS 314	Sep 6	Oct 21
Q	WS 315	Oct 7	Nov 21
	WS 316	Nov 1	Dec 16
	WS 317	Dec 5	Jan 19, 2023

2023

Water Supply			
	Scheme #	Opens	Closes
Q	WS 318	Jan 9	Feb 23
	WS 319	Feb 6	Mar 23
	WS 320	Mar 6	Apr 20
Q	WS 321	Apr 10	May 25
	WS 322	May 8	Jun 22
	WS 323	Jun 5	Jul 20
Q	WS 324	Jul 10	Aug 24
	WS 325	Aug 7	Sep 21
	WS 326	Sep 5	Oct 20
Q	WS 327	Oct 6	Nov 20
	WS 328	Oct 31	Dec 15
	WS 329	Dec 4	Jan 18, 2024

All Waters ERA Microbiology PTs open monthly (**M**), quarterly (**Q**), or biannually (**B**) unless otherwise noted. Waters ERA Massachusetts Ground Water Enterococci PT is available any time. Quarterly months are January, April, July, and October.

WP Microbiology

Wastewater Coliform Microbe

CRM
Cat. #083

PT
Cat. #576

M

QR
Cat. #786QR

Each PT sample is one lyophilized quantitative standard for use with all Clean Water Act quantitative methods, including MF and MPN. If determining MPN by SM 9221 or similar multiple tube techniques, use 083A, 576A, or 786A.

CRM also includes one blank sample. Each standard can be used for total coliform, fecal coliform, and *E. coli* which are present in the range 20–2400 CFU/100 mL or MPN/100 mL.

Wastewater Coliform Microbe – 9221

CRM
Cat. #083A

PT
Cat. #576A

M

QR
Cat. #786AQR

Each PT sample is one lyophilized quantitative standard for use with Standard Methods 9221 or similar multiple tube techniques.

CRM also includes one blank sample. Each standard can be used for total coliform, fecal coliform, and *E. coli* which are present in the range of 20–2400 MPN/100 mL.

Enterococci

CRM
Cat. #081

PT
Cat. #880

Q

QR
Cat. #787QR

Each PT sample is one lyophilized standard, which can be analyzed for enterococci and/or fecal streptococci, MF or MPN in the range 20–1000 CFU/100 mL or MPN/100 mL.

CRM also includes one blank sample. Use with EPA Methods 1106.1 and 1600, ASTM Methods D5259-92, D6503-99, and Standard Methods 9230B and 9230C, and Enterolert Quantitray.

Heterotrophic Plate Count

PT
Cat. #935

B

One lyophilized sample containing a Heterotrophic bacteria. SPC PT standards are required for laboratories seeking NELAC accreditation as well as by many other state programs.

B Offered Biannually in March and September.

State-Specific Microbiology

Massachusetts Ground Water Enterococci

CRM
Cat. #081

PT
Cat. #077

Each PT sample set is composed of 10 lyophilized samples to be analyzed for presence or absence of enterococci. This sample is specifically designed for the State of Massachusetts certification for compliance with the federal Ground Water Rule. Each CRM sample set is composed of two lyophilized samples - one quantitative positive and one blank.

***** Massachusetts Ground Water Enterococci PT is available any time.

WS Microbiology

Heterotrophic Plate Count

CRM
Cat. #084

PT
Cat. #079

M

QR
Cat. #084QR

Each sample is one lyophilized standard containing a heterotrophic bacteria present in the range 5–500 CFU/mL or MPN/mL. Use with the Standard Methods 9215B – Pour Plate Method, and Most Probable Number (MPN) Method (simplate).

Potable Water Coliform Microbe

CRM
Cat. #694

PT
Cat. #080

M

QR
Cat. #085QR

Each sample set consists of lyophilized standards for the presence or absence analysis of total coliform, fecal coliform, and *E. coli*. The standards are applicable to all SDWA promulgated methods-MF, MPN, presence/absence, and ONPG-MUG. The Potable Water Coliform Microbe PT standard is available in all 12-monthly WS studies.

Source Water Microbe

CRM
Cat. #078

PT
Cat. #595

Q

QR
Cat. #078QR

Each sample is one lyophilized quantitative standard containing *E. coli* in the range 20–200 CFU/100 mL or MPN/100 mL. Use with all SDWA quantitative methods. Each standard can be used for total coliform, fecal coliform, and *E. coli*. If determining MPN by SM 9221 or similar multiple tube techniques, use 078A, 595A, and 078AQR.

Source Water Microbe – 9221

CRM
Cat. #078A

PT
Cat. #595A

Q

QR
Cat. #078AQR

Each sample is one lyophilized quantitative standard containing *E. coli* in the range of 20–200 MPN/100 mL for use with Standard Methods 9221 or similar multiple tube techniques. Each standard can be used for total coliforms, fecal coliforms, and *E. coli*.

CRM – Certified Reference Material

PT – Proficiency Testing

QR – Quik Response

All Waters ERA Microbiology PTs open monthly (**M**) or quarterly (**Q**). Quarterly months are January, April, July, and October.



Learn more about Microbiology products