

PROFICIENCY TESTING

Achieve Confidence in Food PT Testing

Our Food Microbiology and Chemistry Proficiency Testing (PT) studies are designed for your convenience and success. We are laser-focused on developing, manufacturing, and delivering ISO 17043 accredited certified reference materials (CRMs) that are not only stable but also sensible and easy to implement. Meets FSMA laboratory accreditations for analysis of food requirements.

Featured Microbiology Products:

- Quantitative Indicators
- Qualitative Salmonella Set
- Qualitative STEC Set

Food Proficiency Testing:

- 4 studies yearly without order deadlines
- PT Express™ on demand PT studies available
- Simple online reporting

Featured Chemistry Products:

- Qualitative Allergens Panels
- pH and Titratable Acidity in Dairy
- Gluten in Food Product



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ZeptoMetrix[®]
an antylia scientific company

Food Microbiology Proficiency Testing

Quantitative Indicators

A blended organism PT standard for quantitative determination of APC, total coliform, *E. coli*, *S. aureus*, enterobacteriaceae, and yeast/mold in the range of 100–250,000 CFU/g after hydration. Supplied with hydration fluid.

Type	Part #
Buffer Matrix (2 pack)	FMPT-001
Buffer Matrix (5 pack)	FMPT-001-5
Buffer Matrix (10 pack)	FMPT-001-10
Meat Matrix (2 pack)	FMPT-001M
Meat Matrix (5 pack)	FMPT-001M-5
Meat Matrix (10 pack)	FMPT-001M-10
Dairy Matrix (2 pack)	FMPT-001D
Dairy Matrix (5 pack)	FMPT-001D-5
Dairy Matrix (10 pack)	FMPT-001D-10

Also available as PT Express samples.

Quantitative Lactic Acid Bacteria

A pure culture conveniently supplied in duplicate for quantitative determination of lactic acid producing bacteria, in the range of 100–250,000 CFU/g after hydration. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-004
Meat Matrix	FMPT-004-M
Dairy Matrix	FMPT-004-D

Also available as PT Express samples.

Quantitative *Bacillus cereus*

A pure culture conveniently supplied in duplicate for quantitative determination of *B. cereus* in the range of 100–250,000 CFU/g after hydration. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-003
Meat Matrix	FMPT-003-M
Dairy Matrix	FMPT-003-D

Also available as PT Express samples.

Quantitative *Pseudomonas*

A pure culture of *P. aeruginosa* conveniently supplied in duplicate for quantitative determination of *pseudomonas*, in the range of 100–250,000 CFU/g after hydration. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-015
Meat Matrix	FMPT-015-M
Dairy Matrix	FMPT-015-D

Also available as PT Express samples.

Qualitative *Listeria monocytogenes* Set

A three sample set for qualitative identification of *L. monocytogenes*. Set contains *L. monocytogenes* plus two non-pathogen, non-listeria organisms. Report present or absent for *L. monocytogenes* for each sample in the set. Three different series available per study. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-006
Meat Matrix	FMPT-006-M
Dairy Matrix	FMPT-006-D

Also available as PT Express samples.

Qualitative *Salmonella* Set

A three sample set for qualitative identification of *salmonella*, spp. Set contains *salmonella* and non-pathogenic, non-salmonella organisms. Report present or absent for *salmonella* spp. for each sample. Three different series available per study. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-008
Meat Matrix	FMPT-008M
Dairy Matrix	FMPT-008D

Also available as PT Express samples.

Food Microbiology Proficiency Testing

Qualitative STEC

A single sample conveniently supplied in duplicate containing at least 1 of 6 STECs for identification. Supplied with hydration fluid. Not for international sale. ECCN restrictions apply.

Type	Part #
Water Matrix	FMPT-009
Meat Matrix	FMPT-009-M
Dairy Matrix	FMPT-009-D

Also available as PT Express samples.

Qualitative Clostridium perfringens

A pure culture of *C. perfringens* for qualitative determination of *C. perfringens*. Supplied with hydration fluid.

Type	Part #
Buffer Matrix	FMPT-027
Meat Matrix	FMPT-027-M
Dairy Matrix	FMPT-027-D

Also available as PT Express samples.

Qualitative Pathogens Set

A unique three sample set for qualitative identification of *S. enterica*, *L. monocytogenes* and *E. coli* O157:H7. Report present or absent for each organism of interest. Three different series available per study. Supplied with hydration fluid.

Type	Part #
Water Matrix	FMPT-005
Meat Matrix	FMPT-005-M
Dairy Matrix	FMPT-005-D

Also available as PT Express samples.

Qualitative STEC Set

A three sample set for qualitative identification of STEC. Set is designed to mimic typical FDA BAM and USDA MLG sample handling procedures. The PT set will contain one of the following: O26, O45, O103, O111, O121 or O145. The PT set can be used to report Total STEC or the specific serotype. Each set contain 3 x 25 grams sterile matrix (beef powder and skim milk powder) and three individually packaged lyophilized microorganism pellets. At least one of the three samples will be positive for STEC.

To use, transfer on 25 gram sterile matrix to a stomacher bag, add 225 mL of your in-house enrichment broth and then add a single sample pellet to the stomacher bag. Process and analyze according to your normal laboratory procedures. Report present or absent for each sample set. Three different series available per study. Not for international sale. ECCN restrictions apply.

Type	Part #
Meat Matrix	FMPT-024M
Dairy Matrix	FMPT-024D

Also available as PT Express samples.

Qualitative Listeria Set (Non-Pathogenic)

A three sample set for qualitative identification of listeria spp. Set contains non-pathogenic listeria strain and non-pathogenic, non-listeria organisms. Report present or absent for listeria spp. for each sample in the set. Three different series available per study. Supplied with hydration fluid.

Type	Part #
Water Matrix	FMPT-007
Meat Matrix	FMPT-007M
Dairy Matrix	FMPT-007D

Also available as PT Express samples.

Food Microbiology Proficiency Testing

Qualitative Campylobacter

A three sample set for qualitative identification of campylobacter spp. Set contains *C. jejuni* or *coli* and non-pathogen/non-campylobacter facultative anaerobes. Report present or absent for campylobacter spp for each sample. Supplied with hydration fluid.

Type	Part #
Water Matrix	FMPT-013
Meat Matrix	FMPT-013-M
Dairy Matrix	FMPT-013-D

Also available as PT Express samples.

Qualitative Listeria monocytogenes Set

A three sample set for qualitative identification of *L. monocytogenes*. Set is designed to mimic typical FDA BAM and USDA MLG sample handling procedures. Each set contains 3 x 25 grams of sterile matrix (beef powder or skim milk powder) and three individually packaged lyophilized microorganism pellets. At least one of three of the sample pellets will be positive for *L. monocytogenes*.

To use, transfer 25 grams of sterile matrix to stomacher bag, add 225 mL of laboratory supplied enrichment broth and then add a single sample pellet to the stomacher bag. Process and analyze according to your normal laboratory procedures. Report present or absent for each sample set. Three different series available per study.

Type	Part #
Meat Matrix	FMPT-022M
Dairy Matrix	FMPT-022D

Also available as PT Express samples.

Qualitative Salmonella Set

A three sample set for qualitative identification of *Salmonella* spp. Set is designed to mimic typical FDA BAM and USDA MLG sample handling procedures. Each set contains 3 x 25 grams of sterile matrix (beef powder or skim milk powder) and three individually packaged lyophilized microorganism pellets. At least one of three of the sample pellets will be positive for *Salmonella*.

To use, transfer on 25 gram sterile matrix to a stomacher bag, add 225 mL of your in-house enrichment broth and then add a single sample pellet to the stomacher bag. Process and analyze according to your normal laboratory procedures. Report present or absent for each sample set. Three different series available per study.

Type	Part #
Meat Matrix	FMPT-023M
Dairy Matrix	FMPT-023D

Also available as PT Express samples.

Food Microbiology Proficiency Testing

Environmental Swab - *Listeria* spp.

A 5 sample panel for qualitative *Listeria* identification of *Listeria* spp. in environmental swabs. Each panel is supplied with 5 inoculated swabs and five 4" x 4" sterile swabbing surfaces. At least 2 of 5 inoculated swabs will be positive for *Listeria* spp. Acceptable evaluation is 4 of 5 correct with no false negatives. *Listeria* species utilized for this panel is *Listeria ivanovii*.

Part #
FMPT-018

Also available as PT Express samples.

Qualitative *E. coli* O157:H7 Set

A three sample set for qualitative identification of *E. coli* O157:H7. Set is designed to mimic typical FDA BAM and USDA MLG sample handling procedures. Each set contains 3 x 25 grams of sterile matrix (beef powder or skim milk powder) and three individually packaged lyophilized microorganism pellets. At least one of the three pellets will be positive for *E. coli* O157:H7.

To use, transfer on 25 gram sterile matrix to a stomacher bag, add 225 mL of your in-house enrichment broth and then add a single sample pellet to the stomacher bag. Process and analyze according to your normal laboratory procedures. Report present or absent for each sample set. Three different series available per study. Not for international sale. ECCN restrictions apply.

Type	Part #
Meat Matrix	FMPT-025M
Dairy Matrix	FMPT-025D

Also available as PT Express samples.

Environmental Swab - *E. coli* O157:H7

A five sample panel for qualitative identification of *E. coli* O157:H7 in environmental swabs. Each panel is supplied with 5 inoculated swabs and five 4" x 4" sterile swabbing surfaces. At least 2 of 5 inoculated swabs will be positive for *E. coli* O157:H7. Acceptable evaluation is 4 of 5 correct with no false negatives. Not for international sale. ECCN restrictions apply.

Part #
FMPT-021

Also available as PT Express samples.

Environmental Swab - *Listeria* monocytogenes

A five sample panel for qualitative identification of *L. monocytogenes* in environmental swabs. Each panel is supplied with 5 inoculated swabs and five 4" x 4" sterile swabbing surfaces. At least 2 of 5 inoculated swabs will be positive for *L. monocytogenes*. Acceptable evaluation is 4 of 5 correct with no false negatives.

Part #
FMPT-020

Also available as PT Express samples.

Food Microbiology Proficiency Testing

Environmental Swab - *Listeria* sp.

A five sample panel for qualitative identification of *Listeria* spp. in environmental swabs. Each panel is supplied with 5 inoculated swabs and five 4" x 4" sterile swabbing surfaces. At least 2 of 5 inoculated swabs will be positive for *Listeria* spp. Acceptable evaluation is 4 of 5 correct with no false negatives. *Listeria* species utilized for this panel is *L. ivanovii*.

Part

FMPT-018

Also available as PT Express samples.

Qualitative Staph Enterotoxins

A five sample set for qualitative identification of *Staphylococcus aureus* enterotoxins in food matrices. Each set contains 5 x 10 grams of beef or 5 x 30 mL skim milk powder or dried egg powder. At least two of the five will be positive for *S. aureus* enterotoxins. Three different series available per study. This product is currently not covered under our ANAB scope.

Type	Part #
Dairy Matrix	FMPT-030D
Egg Matrix	FMPT-030E
Meat Matrix	FMPT-030M



Food Chemistry Proficiency Testing

Qualitative Allergens Panels

Each panel includes 3 samples with at least 1 sample containing the allergen of interest at a level close to regulatory threshold. Verified to work with various test technologies. Each vial contains approximately 10 grams of material, 3 distinct series of each panel are available each study.

Type	Part #
Qualitative Gluten	FCPT-007
Qualitative Peanut	FCPT-008
Qualitative Egg	FCPT-009
Qualitative Milk	FCPT-010
Qualitative Crustacean	FCPT-011
Qualitative Soy	FCPT-012

Also available as PT Express samples.

Proximates and Elements in Food

The PT material is typically a grain flour or cereal blend intended for analysis of pH, ash, % moisture, total fat, heavy metals, total protein, total dietary fiber, carbohydrates, vitamins, minerals/elements, water activity, and salt. Approximately 50 grams per bottle. Supplied in duplicate.

Part #
FCPT-001

pH and Titratable Acidity in Dairy

The PT material is typically a skim milk. Analyze for pH and titratable acidity. Supplied in 2 x 100 mL bottles.

Part #
FCPT-013

Meat Homogenate

The PT material is typically a homogenized ground beef, pork, chicken, or turkey. The material is lyophilized for stability and ease of handling. Analyze for pH, ash, moisture, total fat, heavy metals, minerals, total protein, cholesterol, and salt. Approximately 50 grams per bottle. Supplied in duplicate.

Part #
FCPT-005

Gluten in Food Product

A quantitative single sample of gluten in rice flour in the range of 10-200 mg/kg. Applicable for Neogen Veratox, 3M and R-Biopharm methods. This product is currently not covered under our ANAB scope.

Part #
FCPT-021

2024/2025 Food Science Study Schedule

Study Number	Study Opens	Study Closes
FS-1124	November 4, 2024	December 18, 2024
FS-0225	February 12, 2025	March 28, 2025
FS-0525	May 06, 2025	June 19, 2025
FS-0825	August 06, 2025	September 19, 2025
FS-1125	November 05, 2025	December 19, 2025



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