NSI



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

Featured Chemistry Products:

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

Food Proficiency Testing:

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



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.

Туре	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.

Туре	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.

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

Also available as PT Express samples.

Quantitative Psuedomonas

A pure culture of P. aeruginosa conveniently supplied in duplicate for quantitative determination of psuedomonas, 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.

Туре	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.

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

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.

Туре	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.

Туре	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 0157:H7. Report present or absent for each organism of interest. Three different series available per study. Supplied with hydration fluid.

Туре	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.

Туре	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.

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

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 app for each sample. Supplied with hydration fluid.

Туре	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.

Туре	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.

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

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 0157:H7 Set

A three sample set for qualitative identification of E. coli 0157: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 0157: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.

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

Also available as PT Express samples.

Environmental Swab - E. coli 0157: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

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.

Туре	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.

Туре	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, 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, 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	

Proximates and Elements in Infant Formula

This PT material is homogenized powdered dairy based infant formula. Analyze for Arsenic, Ash, Calcium, Cadmium, Calcium, Carbohydrate, Chromium, Copper, Iron, Kcalories, Lead, Magnesium, Manganese, Mercury, Moisture, Phosphorus, Potassium, Protein, Sodium, Total Dietary Fiber, and Total Fat. Approximately 50 grams per bottle. Supplied in duplicate.

Part #		
FCPT-022		

Proximates and Elements in Milk

This PT material is homogenized powdered dairy cow's milk. Analyze for Arsenic, Ash, Cadmium, Calcium, Carbohydrates, Copper, Fat, Kcalories, Lactose, Lead, Manganese, Mercury, Moisture, Protein, Sugars, Vitamin D, Vitamin D2, Vitamin D3.e.

Part #		
FCPT-023		

2026 Food Science Study Schedule

Study Number	Study Opens	Study Closes
FS-0226	February 11, 2026	March 27, 2026
FS-0526	May 13, 2026	June 26, 2026
FS-0826	August 12, 2026	September 25, 2026
FS-1126	November 16, 2026	December 30, 2026



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