Other Analytical Methods of Interest to the Foods Program

The following are analytical laboratory methods of interest to the Foods Program, but are not currently part of the FDA Foods Program Compendium of Analytical Laboratory Methods.

Other FDA Chemical Methods of Interest

The following methods lack sufficient validation status to be included in the Chemical Analysis Manual (CAM) or any another established Foods Program methods collection (e.g., Elemental Analysis Manual). These methods may be of interest because they have been used in one-time surveys or have been selected for future validation.

Search:

Analyte	Matrix	Method Title
Acrylamide	Multiple foods	Detection and Quantitation of Acrylamide in Foods (/food/process-contaminants-food/detection-and-quantitation-acrylamide-foods)
Benzene	Soft drinks and beverages	Determination of Benzene in Soft Drinks and Other Beverages (/food/environmental-contaminants-food/determination-benzene-soft-drinks-and-other-beverages)
Ephedrine alkaloids	Botanical and dietary supplements	FDA's Analytical Methods for Testing of Products Believed to Contain Ephedrine Alkaloids (/food/laboratory-methods-food/fdas-analytical-methods-testing-products-believed-contain-ephedrine-alkaloids)
Furan	Multiple foods	Determination of Furan in Foods (/food/process-contaminants-food/determination-furan-foods)
Melamine and cyanuric acid	Animal tissue and milk-based infant formula	Method for Determination of Melamine and Cyanuric Acid Residues In Foods using LC-MS/MS (/food/laboratory-methods-food/laboratory-information-bulletin-lib-4422-melamine-and-cyanuric-acid-residues-foods)

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Analyte	Matrix	Method Title
Perchlorate	Fruits, vegetables, milk, low moisture foods, infant foods, and water	Rapid Determination of Perchlorate Anion in Foods by Ion Chromatography–Tandem Mass Spectrometry (/food/environmental-contaminants-food/rapid-determination-perchlorate-anion-foods-ion-chromatography-tandem-mass-spectrometry)

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Other FDA Microbiological Methods of Interest

The following microbiological methods are in use in FDA laboratories or are cited by FDA compliance programs or FDA guidance documents, but lack multi-laboratory validation status and are not included in the FDA Foods Program Compendium of Analytical Laboratory Methods: Microbiological Methods. In some cases the methods have been validated at the single laboratory level under the Foods Program Guidelines for the Validation of Analytical Methods for the Detection of Microbial Pathogens (/media/83812/download?attachment) and have been used in small-scale assignments at a limited number of FDA laboratories. If these single laboratory validated methods are slated for continued use, they will undergo multi-laboratory evaluation using FDA's guidelines, and if validated, will be included in the BAM (/food/laboratory-methods-food/bacteriological-analytical-manual-bam). FDA considers the methods listed below are judged to be acceptable for their intended uses.

Search:

Analytes	Matrix	Method Title
All microorganisms	Tattoo inks	Microbiological Methods for Testing the Sterility of Tattoo Inks (/media/130664/download?attachment) October 2020
Cyclospora cayetanensis	Agriculture Water	Dead-end Ultrafiltration for the Detection of Cyclospora cayetanensis from Agricultural Water December 2022
Cyclospora cayetanensis	Fresh Produce	Molecular Detection of *Cyclospora cayetanensis* in Fresh Produce Using Real-Time PCR January 2024 (/media/175380/download?attachment)
E. coli	Agricultural water	Equivalent Testing Methodologies for Agricultural Water (/about-fda/page-not-found), September 2017

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Analytes	Matrix	Method Title
E. coli O157:H7, *Salmonella*	Sprout irrigation water, sprout samples	Equivalent Testing Methodologies for *E. coli* O157:H7 and *Salmonella* in Spent Sprout Irrigation Water or Sprouts Samples (/food/laboratory-methods-food/equivalent-testing-methodologies-e-coli-o157h7-and-salmonella-spent-sprout-irrigation-water-or), March 2023
E. coli O157:H7, *Salmonella*	Sprout irrigation water, sprout samples	Testing Methodologies for E. coli O157:H7 and Salmonella species in Spent Sprout Irrigation Water (or Sprouts) (/media/94349/download?attachment), October 2015
Listeria spp., *Listeria monocytogenes*	Environmental samples	Testing Methodology for Listeria species or *Listeria monocytogenes* in Environmental Samples (/media/94358/download?attachment), October 2015
Listeria spp., *Listeria monocytogenes*	Environmental samples	Equivalent Testing Methodologies for *Listeria* species and *Listeria monocytogenes* in Environmental Samples (/food/laboratory-methods-food/equivalent-testing-methodologies-listeria-species-and-listeria-monocytogenes-environmental-samples)
Salmonella Enteritidis	Environmental samples	Environmental Sampling and Detection of *Salmonella* in Poultry Houses (/food/laboratory-methods-food/environmental-sampling-and-detection-salmonella-poultry-houses)
Salmonella Enteritidis	Environmental samples	Testing Methodology for *Salmonella* Enteritidis (SE) (/food/laboratory-methods-food/testing-methodology-salmonella-enteritidis-se)
Salmonella Enteritidis	Environmental samples	Detection of *Salmonella* in Environmental Samples from Poultry Houses (/food/laboratory-methods-food/detection-salmonella-environmental-samples-poultry-houses)

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Was this helpful? Yes No

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