

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND
AOAC FOOD LABORATORY REQUIREMENTS**

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TESTING

Valid to: **December 23, 2019**

Certificate Number: **AT-1830**

Microbial

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Aerobic Plate Count	Compendium of Methods for the Examination of Foods Chapter 8; FDA BAM Chapter 3; SMEWW 9215; SMEDP Chapter 6	Foods, Environmental samples, Dairy and Water	Plate Count
Coliforms / Fecal Coliform / <i>Escherichia coli</i>	AOAC 966.24; FDA BAM Chapter 4; SMEWW 9221; SMEDP Chapter 7	Foods, Dairy and Water	MPN
Aerobic Plate Count Petrifilm	AOAC 990.12; AOAC 986.33; AOAC 989.10	Foods, Environmental samples, Dairy and Water	Petrifilm
Coliforms / <i>E. coli</i>	AOAC 991.14; AOAC 996.02; AOAC 998.08	Foods, Environmental samples, Dairy and Water	Petrifilm
Coliforms – VRB	FDA BAM Chapter 4	Foods, Environmental samples, Dairy and Water	Plate Count
Lactic Acid Producing Bacteria	Compendium of Methods for the Examination of Foods Chapter 19	Foods, Environmental samples, Dairy and Water	Plate Count
Bacillus cereus	Compendium of Methods for the Examination of Foods Chapter 31; AOAC 980.31; FDA BAM Chapter 14; USDA FSIS MLG Chapter 12	Foods, Environmental samples, Dairy and Water	Spread Plate

Microbial

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Enterobacteriaceae	AOAC 2003.01	Foods, Environmental samples, Dairy and Water	Petrifilm
<i>Staphylococcus aureus</i>	Compendium of Methods for the Examination of Foods Chapter 39; AOAC 975.55; FDA BAM Chapter 12	Foods, Environmental samples, Dairy and Water	Spread Plate
<i>Staphylococcus aureus</i>	AOAC 2003.07; AOAC 2003.08; AOAC 2003.11	Foods, Environmental samples, Dairy and Water	Petrifilm
Yeast and Mold	Compendium of Methods for the Examination of Foods Chapter 21; FDA BAM Chapter 18	Foods, Environmental samples, Dairy and Water	Plate Count
Yeast and Mold	AOAC 997.02; AOAC 121301	Foods, Environmental samples, Dairy and Water	Petrifilm
<i>Listeria species</i> cultural	AOAC 993.12; FDA BAM Chapter 10; USDA/FSIS MLG Chapter 8	Foods, dairy and Environmental	Cultural
<i>Listeria species</i> – ELFA	AOAC 999.06; AOAC RI 981202; AOAC 2004.06; AOAC 2013.10	Foods, dairy and Environmental	ELFA
<i>Listeria monocytogenes</i> - ELFA	AOAC 2004.02	Foods, dairy and Environmental	ELFA
<i>Listeria monocytogenes</i> - PCR	AOAC RI 080901	Foods, dairy and Environmental	PCR
<i>Listeria species</i> - PCR	AOAC RI 050903	Foods, dairy and Environmental	PCR
<i>Salmonella species</i> – ELFA	AOAC 996.08; AOAC 2004.03; AOAC 2011.03; AOAC RI 020901	Foods, dairy and Environmental	VIDAS
<i>Salmonella species</i> – PCR	AOAC RI 970801; AOAC 2003.09; AOAC RI 100201; AOAC 2013.02	Foods, dairy and Environmental	PCR
<i>Salmonella species</i> – cultural	AOAC 995.20; FDA BAM Chapter 5; USDA/FSIS MLG Chapter 4	Foods, dairy and Environmental	Cultural
<i>E coli</i> O157:H7 - PCR	AOAC 050501; AOAC 031002	Foods, dairy and Environmental	PCR

Microbial

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<i>E. coli</i> O157:H7 – ECPT	AOAC RI 060903	Foods, dairy and Environmental	VIDAS

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Decomposition Net Contents of Frozen Seafood	SOP-Z100-600-ALL; SOP-Z100-100-ALL; SOP-Z100-200-ALL; AOAC: 963.18; AOAC 967.13; SOP-Z300-100-ALL	Canned Tuna, Fresh and Frozen Seafood, Mahi Mahi	Organoleptic
Ash - Acid Insoluble and Total	ASTA 4.0; ASTA 3.0	Spices and Foods	Gravimetric
Curcumin Content of Turmeric Spice and Oleoresins	ASTA 18.0	Spices and Foods	Spectrophotometric
Extractable Color in Capsicums and their Oleoresins	ASTA 20.1	Spices and Foods	Spectrophotometric
Moisture (Distillation Method)	ASTA 2.0	Spices and Foods	Distillation
Piperine Content of Black and White Pepper, their Oleoresins and Soluble Pepper Seasoning	ASTA 12.1	Spices and Foods	Spectrophotometric
Steam Volatile Oil in Cassia (revised) and other Spices	ASTA 5.2; ASTA 16.0	Spices and Foods	Distillation

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Light Filth	AOAC Chapter 16, Subchapter 4, 5, 8, 9, 10, 11, 12, 14, 15, LIB#: 2957, 3172, 3156	Baked Goods, Beverages and Beverage Materials, Breakfast Cereals, Dairy Products, Eggs and Egg Products, Fruits and Fruit Products, Grains and their Products, Miscellaneous Products, Nuts and Nut Products, Poultry, Meat, Fish and other Marine Products, Shrimp, Snack Food Products, Spices and other Condiments, Sugars and Sugar Products, Vegetables and Vegetables Products	Microscopy Macroscopy
Filth - Macroanalytical	ASTA 14.1; AOAC MAPM Chapter 5, Subchapters 3, 8, 9, 10, 11, ASTA 14.0, 22.1; ASTA 26.0	Extraneous Matter in Spices (excluding pepper), Fruit and Fruit Products, Grains and Grain Products, Ground Capsicums (Excluding Paprika), Light Berries and Extraneous Matter in Pepper, Nuts and Nut Products, Paprika, Spices, Condiments, Flavors and Crude Drugs, Foreign Leaves in Oregano, Vegetables and Vegetable Products	Microscopy Macroscopy
Aflatoxin	AOAC Chapter 49, Natural Toxins, ASTA 24.2; Vicam Aflatest Manual, USDA Modification of AOAC 991.3; SOP-W850-200-ALL	Food, nuts, spices and Food-Related Products	VICAM
Cholesterol	AOAC: 941.09; AOAC 954.03; AOAC 976.26; GC (Internal) SOP-N200-150-ALL	Food and Food-Related Products	GC

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Determination of Oil Soluble Dyes in Capsicum and Turmeric Samples and Products by HPLC	ASTA 29.4; SOP-N500-500-ALL	Food, spices and Food-Related Products	LC/MS/MS
Nitrofurans by LC/MS/MS	FDA LIB4482; SOP-N500-300-ALL	Seafood and Seafood Related Products	LC-MS/MS
Decomposition Net Contents of Frozen Seafood	SOP-Z100-600-ALL; SOP-Z100-100-ALL; SOP-Z100-200-ALL; AOAC: 963.18; AOAC 967.13; SOP-Z300-100-ALL	Canned Tuna, Fresh and Frozen Seafood, Mahi Mahi	Organoleptic
Ash - Acid Insoluble and Total	ASTA 4.0; ASTA 3.0	Spices and Foods	Gravimetric
Curcumin Content of Turmeric Spice and Oleoresins	ASTA 18.0	Spices and Foods	Spectrophotometric
Extractable Color in Capsicums and their Oleoresins	ASTA 20.1	Spices and Foods	Spectrophotometric
Moisture (Distillation Method)	ASTA 2.0	Spices and Foods	Distillation
Piperine Content of Black and White Pepper, their Oleoresins and Soluble Pepper Seasoning	ASTA 12.1	Spices and Foods	Spectrophotometric

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Steam Volatile Oil in Cassia (revised) and other Spices	ASTA 5.2; ASTA 16.0	Spices and Foods	Distillation
Light Filth	AOAC Chapter 16, Subchapter 4, 5, 8, 9, 10, 11, 12, 14, 15, LIB#: 2957, 3172, 3156	Baked Goods, Beverages and Beverage Materials, Breakfast Cereals, Dairy Products, Eggs and Egg Products, Fruits and Fruit Products, Grains and their Products, Miscellaneous Products, Nuts and Nut Products, Poultry, Meat, Fish and other Marine Products, Shrimp, Snack Food Products, Spices and other Condiments, Sugars and Sugar Products, Vegetables and Vegetables Products	Microscopy Macroscopy
Filth - Macroanalytical	ASTA 14.1; AOAC MAPM Chapter 5, Subchapters 3, 8, 9, 10, 11, ASTA 14.0; ASTA 22.1; ASTA 26.0	Extraneous Matter in Spices (excluding pepper), Fruit and Fruit Products, Grains and Grain Products, Ground Capsicums (Excluding Paprika), Light Berries and Extraneous Matter in Pepper, Nuts and Nut Products, Paprika, Spices, Condiments, Flavors and Crude Drugs, Foreign Leaves in Oregano, Vegetables and Vegetable Products	Microscopy Macroscopy
Aflatoxin	AOAC Chapter 49, Natural Toxins, ASTA 24.2; Vicam Aflatest Manual, USDA Modification of AOAC 991.3 SOP-W850-200-ALL	Food, nuts, spices and Food-Related Products	VICAM
Cholesterol	AOAC: 941.09; AOAC 954.03; AOAC 976.26 GC (Internal); SOP-N200-150-ALL	Food and Food-Related Products	GC

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Determination of Oil Soluble Dyes in Capsicum and Turmeric Samples and Products by HPLC	ASTA 29.4 SOP-N500-500-ALL	Food, spices and Food-Related Products	LC/MS/MS
Ethylene Oxide (ETO)	ASTA 23.2, Jensen, Lebensm Unters, Forsch – 1988 Vol. 187 pgs 535-540; SOP-N200-660-ALL	Food, spices and Food-Related Products	GC
Ethylene Chlorohydrin Residues	ASTA 23.3 Jensen, Lebensm Unters Forsch – 1988; SOP-N200-650-ALL	Food, spices and Food-Related Products	GC
Fatty Acid Profile including Transfat	AOAC 963.22; AOCS Ce 1F-96 SOP-N200-100-ALL	Food and Food-Related Products	GC
Malachite Green, Gentian Violet, Leucomalachite Green, & Leucogentian Violet	AOAC 2012.25 SOP-N500-100-ALL	Seafood and Seafood Related Products	LC/MS/MS
Melamine / Cyanuric Acid	FDA LIB 4422 SOP-N500-400-ALL	Food, dairy and Food-Related Products	LC/MS/MS
Metals by AA	Nitric Acid Dig / AA, AOAC 971.21 modified; AOAC 974.14 modified, (Internal SOP-N700-200); FDA Elemental Analysis Manual (EAM); AOAC Chapter 9, (Metals and Other Elements) SOP-N700-200-ALL	Food and Food-Related Products	AA

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Nitrofurans by LC/MS/MS	FDA LIB4482; SOP-N500-300-ALL	Seafood and Seafood Related Products	LC-MS/MS
Pesticides	Pesticide Analytical Manual (3 rd Ed.) Vol.1, Chapt. 3 with 1999 updates; FDA LIB# 4110; Quechers Modification of PAM I 303, (Internal SOP-N100-800); SOP-N300-800-ALL; SOP-N300-820-ALL; SOP-N200-800-ALL; JAOAC Int. 2004 Sept-Oct 87(5):1224-36; JAOAC Int. 2005 Sept-Oct 88(5):1452-62; AOAC 2007.01; USDA CLG-PST5.07	Food, spices and Food-Related Products	GC-FPD, GC-MS, LC-MS/MS, GC-MS/MS
Pungency of Capsicum and their Oleoresins	ASTA 21.3 ASTA 21.1; AOAC 955.03; SOP-N400-300-ALL; SOP-N400-310-ALL	Food, spices and Food-Related Products	HPLC UPLC
Sudans	ASTA 28 SOP-N400-500-All	Food, spices and Food-Related Products	HPLC
Sugars	AOAC 982.14; AOAC 996.04; SOP-N400-200-ALL	Food and Food-Related Products	IC
Total Hexane Content	ASTA 27.1 SOP-N200-220-ALL	Meals, spices and Grain Products	GC
Vitamin A	AOAC 938.04 MOD. SOP-N400-700-ALL	Food and Food-Related Products	HPLC
Vitamin D	AOAC 2011.11 SOP-N500-700-ALL	Food and Food-Related Products	LC/MS/MS
Chloramphenicol	FDA LIB 4302; SOP-N500-900-ALL; USDA CLG-CAM.03	Seafood and Seafood Related Products	LC/MS/MS

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Fluoroquinolones	Schneider, et al, Multiresidue Determination of Fluoroquinolones in Shrimp by HPLC / Fluorescence / MS, JAOAC 88, #4.P 1160(2005); Preparation and LC/MS/MS Analysis of Honey for Fluoroquinolone Residues, Method Developed by Florida Dept. of Agriculture & Consumer Svcs SOP-N500-200-ALL	Seafood and Seafood Related Products	HPLC HPLC-MS
Metals by ICP/MS	FDA EAM Section 4.7 SOP-N900-000-ALL	Food and Food-Related Products	ICP-MS
Metals by ICP/OES	FDA EAM Section 4.4 SOP-N950-000-ALL	Food and Food-Related Products	ICP-OES
Sampling	SOP G100-100-ALL	Food and Food Related Products	Sampling
Artificial Colors	AOAC 988.13 (Young); JAOAC 46(6) 1963 Graichen; SOP-W-700-100-All	Food and Food-Related Products	TLC
Ash	AOAC Latest Edition SOP-W-250-500-All	Food and Food-Related Products	Gravimetric
Calories	Methods of Analysis for Nutritional Labeling AOAC International, 1993 SOP-W900-900-ALL	Food and Food-Related Products	Calculation
Carbohydrates (by calculation)	Methods of Analysis for Nutritional Labeling AOAC International, 1993 SOP-W900-900-ALL	Food and Food-Related Products	Calculation
Chloramphenicol	R1501 Ridascreen SOP-W-500-100-All	Seafood, foods and food Related Products	Immunoassay
Dietary Fiber (total insoluble and soluble)	AOAC 941.43 SOP -W-450-100-All	Food and Food-Related Products	Distillation
Fat by Ether Extraction	AOAC 960.39; USDA FAT1; SOP-W-150-400-All	Food, dairy and Food-Related Products	Extraction / Gravimetry
Fat by Mojonnier Acid Hydrolysis	AOAC Latest Edition; SMEDP 15.086; SOP-W-150-500-All	Food, dairy and Food-Related Products	Extraction / Gravimetry

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Histamine	AOAC 977.13 SOP-W-800-400-All	Seafood and Seafood Related Products	Fluorometric
Moisture Drying Oven	AOAC Latest Edition; USDA MOI; SMEDP 15.114; SOP-W-100-100-All	Food and Food-Related Products	Gravimetric
Moisture Vacuum Oven	AOAC Latest Edition; ASTA 2.1; SMEDP 15.114 ; SOP-W-100-200-All	Food and Food-Related Products	Gravimetric
Nitrite	USDA NTII SOP-W-800-100-All	Food and Food-Related Products	Colorimetric
pH	AOAC 981.12 SOP-W-600-100-All	Food, dairy and Food-Related Products	Potentiometry
Protein	AOAC 991.20 SOP-W-300-100-All	Food, dairy and Food-Related Products	Distillation / Titration
Salt	AOAC 935.47; USDA SLT; SOP-W-400-100-All	Food and Food-Related Products	Titration
Sulfites	AOAC 990.28 SOP-W-300-200-All	Food and Food-Related Products	Optimized Monier Williams Method
Artificial Sweeteners	AOAC 969.27 SOP-W-700-500-All	Food and Food-Related Products	TLC
Titrateable Acidity	SOP-W-400-200-All	Food and Food-Related Products	Titration
Vanillin	SOP-W-800-600-All	Food and Food-Related Products	Spectrophotometric
Vitamin C	SOP-N400-750-ALL SOP-N400-760-ALL	Food and Food-Related Products	HPLC UPLC
Water Activity	SOP-W-600-500-NCal	Food and Food-Related Products	Hygrometry
Allergens	ELISA manufacturer kit instructions	Food, environment and Food-Related Products	ELISA

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1830.



Vice President