



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND AOAC INTERNATIONAL-GUIDELINES FOR LABORATORIES PERFORMING MICROBIOLOGICAL AND CHEMICAL ANALYSIS OF FOOD, DIETARY SUPPLEMENTS, AND PHARMACEUTICALS - 2015

Columbia Food Laboratories dba Pixis Labs

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TESTING

Valid to: January 6, 2021

Certificate Number: AT-1508

Chemistry

Table with 4 columns: Specific Tests and/or Properties Measured, Specification, Standard, Method, or Test Technique, Items, Materials or Product Tested, Key Equipment or Technology. Rows include Allergens, Cholesterol, Fat, Total, Protein, Sugars, Moisture and Solids, Ash, Total Dietary Fiber, Fatty Acid Profile, and Gluten.



Chemistry

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Pesticide Multi-Residue	QuEChERS AOAC 2007.1 & EN 15662 (Modified)	Food, Feed, Dietary Supplements, Cannabis and Cannabis Products	GC-FPD, GC-ECD, GC-XSD, GC/MS, GC/MS/MS, LC/MS/MS
Mycotoxins	QuEChERS AOAC 2007.1; EN 15662 (Modified)	Food, Feed and Dietary Supplements	LC/MS/MS
Patulin	AOAC 995.10 (Modified); AOAC 974.18 (Modified)	Food, Feed and Dietary Supplements	HPLC
pH	AOAC 981.12 (Modified)	Food, Feed and Dietary Supplements	pH Electrode
Water Activity	AOAC 978.18 (Modified)	Food, Feed and Dietary Supplements	Aqualab Water Activity Meter
Heavy Metals: Arsenic, Cadmium, Lead, Mercury	AOAC 2013.06 (Modified)	Food, Feed and Dietary Supplements	ICP-MS
Minerals: Calcium, Iron, Sodium, Potassium, Phosphorus	AOAC 2014.11 (Modified)	Food, Feed and Dietary Supplements	ICP-OES ICP-MS
Sorbic and Benzoic Acid	JAOAC 1995, 68, 488-492 (Modified)	Food, Feed and Dietary Supplements	HPLC
SCIRA- C4 Plant Sugars in Honey	AOAC 998.12 (Modified)	Honey	CM-CRDS
Sulfites	AOAC 990.28 (Modified)	Food, Feed and Dietary Supplements	Wet Chemistry
Honey Pesticide Profile	QuEChERS AOAC 2007.1; EN 15662 (Modified)	Honey	GC-FPD, GC-ECD, GC-XSD, GC/MS, GC/MS/MS, LC/MS/MS
Antibiotics in Honey	JOAC International Vol. 85, No 4, 2002 pp. 853-860(8)	Honey	LC/MS/MS
Honey Color	Honey Color by Digital Photometer	Honey	Photometer

Chemistry

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Free Acidity	IHC Free Acidity 2009 (Modified)	Honey	pH Electrode
Electrical Conductivity	IHC Electrical Conductivity (Modified)	Honey	Conductivity Meter
Insoluble / Solids	IHC 2009 Insoluble Matter (Modified)	Food, Feed, Dietary Supplements, and Honey	Gravimetric
Diastase	AOAC 958.09 Diastatic Activity (Modified)	Honey	Spectrophotometer
HMF	IHC 2009 5-Hydroxymethylfurfural (Modified)	Honey	HPLC/DAD
Cannabinoids	JAOAC International, Vol. 98, No. 6, 2015 (Modified)	Cannabis and Cannabis Products Hemp and Hemp Products	HPLC
Vitamin D	Huang Et Al. RCIMS 2014, 28. pp. 2101-10	Food, Feed, and Dietary Supplements	UHPLC, LC/MS/MS
Glyphosate	QuPPE-Method, EU Reference Laboratory for Pesticides Requiring Single Residue Methods (EURL-SRM), Version 7, Dec. 2012	Food, Feed, and Dietary Supplements	LCMS/MS
Moisture	IHC 2009 Moisture Refractometric (Modified)	Honey	Refractometer
Residual Solvents	EPA 5021A	Cannabis and Hemp Products	GC-MS/Headspace

Microbiology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Aerobic Plate Count	AOAC 966.23; FDA BAM Ch. 3	Food, Feed and Dietary Supplements	Plate Count

Microbiology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Aerobic Plate Count	AOAC 990.12	Food, Feed and Dietary Supplements	3M Petrifilm
<i>Bacillus cereus</i>	AOAC 980.31	Food, Feed and Dietary Supplements	MPN
<i>Bacillus cereus</i>	AOAC 980.31	Food, Feed and Dietary Supplements	Plate Count
Clostridium species	AOAC 976.30	Food, Feed and Dietary Supplements	Plate Count
Clostridium perfringens	AOAC 976.30	Food, Feed and Dietary Supplements	Plate Count
Coliforms / E. coli	AOAC 991.14	Food, Feed and Dietary Supplements	3M Petrifilm
Enterobacteriaceae	AOAC 2003.01	Food, Feed and Dietary Supplements	3M Petrifilm
E. coli O157	ISO/TS 13136 2012	Food, Feed and Dietary Supplements	PCR system
E. coli O157	AOAC RI 070801	Food, Feed and Dietary Supplements	Immunocapture Kit
Howard Mold Count	AOAC 984.29; AOAC 982.33	Food, Feed and Dietary Supplements	Microscope
Lactic Acid Bacteria	APHA CCMEF, Ch. 19 (Modified)	Food, Feed and Dietary Supplements	Plate Count
Listeria monocytogenes/ Listeria spp.	AOAC RI 030406	Food, Feed and Dietary Supplements	Chromogenic Agar
Listeria monocytogenes	AOAC RI 070401	Food, Feed and Dietary Supplements	PCR system

Microbiology

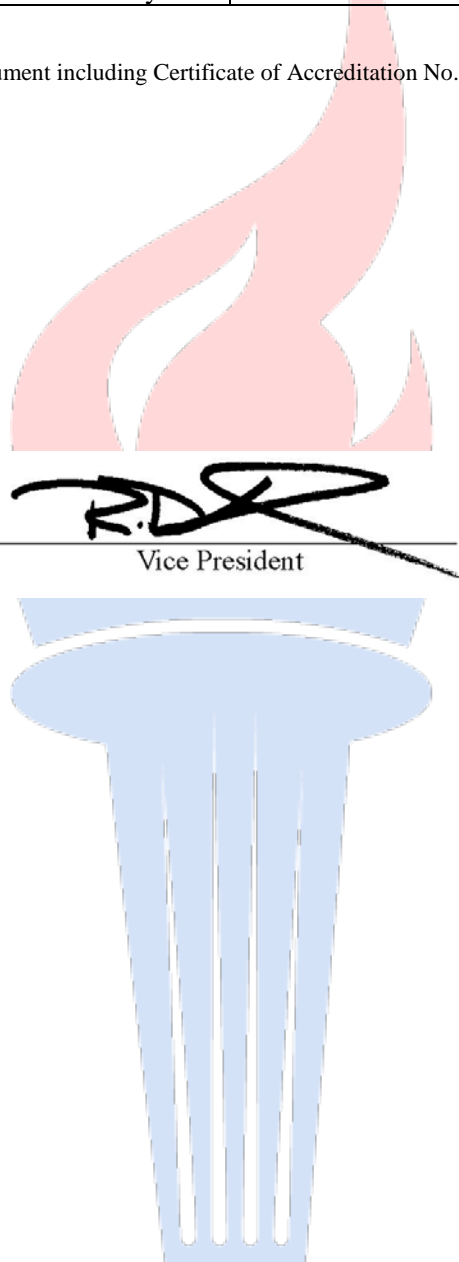
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Pseudomonas spp.	ISO 13720	Food, Feed and Dietary Supplements	Plate Count
Salmonella spp.	FDA BAM Ch. 5	Food, Feed and Dietary Supplements	Plate Count
Salmonella spp.	AOAC RI 050701	Food, Feed and Dietary Supplements	Chromogenic Agar
Salmonella spp.	AOAC RI 120301	Food, Feed and Dietary Supplements	PCR
Staphylococcus aureus	AOAC 2003.07	Food, Feed and Dietary Supplements	3M Petrifilm
Shiga toxin producing <i>E. coli</i> (STEC) Screen	ISO.TS 13136 2012	Food, Feed and Dietary Supplements	PCR
Shiga toxin producing <i>E. coli</i> (STEC) ID	ISO.TS 13136 2012	Food, Feed and Dietary Supplements	PCR
Yeast & Mold	FDA BAM Ch. 18	Food, Feed and Dietary Supplements	Plate Count
Yeast & Mold	AOAC 997.02	Food, Feed and Dietary Supplements	3M Petrifilm
Rapid Yeast & Mold	AOAC 2014.05	Food, Feed and Dietary Supplements	3M Petrifilm
Salmonella sp.	AOAC 2016.01	Food, Feed and Dietary Supplements	3M Molecular Detection System
Listeria sp.	AOAC 2016.07	Food, Feed and Dietary Supplements	3M Molecular Detection System
Listeria monocytogenes	AOAC 2016.08	Food, Feed and Dietary Supplements	3M Molecular Detection System
<i>E. coli</i> 0157 including H7	AOAC 2017.01	Food, Feed and Dietary Supplements	3M Molecular Detection System
Cronobacter	Cronobacter by 3M Molecular Detection System	Food, Feed and Dietary Supplements	3M Molecular Detection System

Microbiology

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Campylobacter	Campylobacter by 3M Molecular Detection System	Food, Feed and Dietary Supplements	3M Molecular Detection System

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1508.



R. D. P.
Vice President