

## **ANSI-ASQ National Accreditation Board/ACLASS**

# SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 and AOAC FOOD LABORATORY Requirements

## Molecular Epidemiology, Inc. (MEI) dba IEH Laboratories and Consulting Group

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#### **TESTING**

Valid to: January 31, 2015 Certificate Number: AT – 1516

### I. Microbiological <sup>3</sup>

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Food Products, Pharmaceuticals, Environmental Samples	Food Analytical Prep	MB001-MEI Sample Preparation for Microbial Analyses	IEH Method
Food Products, Pharmaceuticals, Environmental Samples	E. coli O157	MB038: USDA Cultural Confirmation Only USDA MLG 5	Lateral Flow EIA
Food Products, Pharmaceuticals, Environmental Samples	Total Coliform / E. coli Count	MB072-MEI Total Coliform / E. coli Count Petrifilm (AOAC 991.14)	Petrifilm
Food Products, Pharmaceuticals, Environmental Samples	Aerobic Plate Count	MB078-MEI Aerobic Plate Count Petrifilm (AOAC 990.12)	Petrifilm
Food Products, Pharmaceuticals, Environmental Samples	IEH- <i>E. coli</i> -MPN 12 hrs	MB081-MEI Enumeration of Generic <i>E.</i> <i>coli</i> by IEH-MPN Method (IEH- <i>E. coli</i> -MPN, 12 hr)	IEH Method
Food Products, Pharmaceuticals, Environmental Samples	Detection of Salmonella	MB094-MEI Detection of Salmonella in Meat, Poultry and Environmental Samples - Salmonella Confirmation (USDA MLG 4)	USDA Method
Food Products, Pharmaceuticals, Environmental Samples	Detection of E. coli O157	MB217-MEI Detection of <i>E. coli</i> O157:H7 by Multiplex PCR (AOAC-RI PTM 100701)	Multiplex PCR System

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Food Products, Pharmaceuticals, Environmental Samples	Detection of E. coli O157 / EHEC / STEC and Salmonella sp.	MB217 IEH E. coli O157, Stx-producing E. coli (STEC/EHEC) with Intimin and Salmonella Test System (AOAC-RI PTM 100701)	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Detection of EHEC / STEC	MB217- MEI/IEH Stx-producing <i>E.coli</i> (STEC/EHEC) with Intimin (AOAC-RI PTM 100701)	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Detection of Salmonella sp.	MB217 MEI/IEH Salmonella Test System (AOAC-RI PTM 100701)	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Detection of Shigella sp.	MB222 Detection of <i>Shigella</i> sp. in Food and Environmental Samples by Multiplex PCR	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Lactic Acid Bacteria Count	MB231 Compendium of Methods for the Microbiological Examination of Food Products 4 <sup>th</sup> ed.	Pour Plate
Food Products, Pharmaceuticals, Environmental Samples	Detection of Salmonella sp.	MB315-MEI Detection of Salmonella sp. in Food and Environmental Samples by Multiplex PCR (AOAC-RI PTM 100701)	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Detection of  Listeria sp and  L. monocytogenes	MB316-MEI Detection of <i>Listeria sp.</i> and <i>L. monocytogenes</i> by Multiplex Method	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Lactic Acid Bacteria Count	MB343-MEI Lactic Acid Bacteria Count Petrifilm	Petrifilm Anaerobic incubation
Food Products, Pharmaceuticals, Environmental Samples	Bacterial Sub-typing by MRF	MB431-MEI Bacterial Subtyping by Micro Restriction Fingerprinting (MRF)	Micro Restriction Fingerprinting
Food Products, Pharmaceuticals, Environmental Samples	Detection and Enumeration of Staphylococcus aureus	MB443 Detection and Enumeration of Staphylococcus aureus Petrifilm (AOAC 2003.07, 2003.08, 2003.11)	Petrifilm

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Food Products, Pharmaceuticals, Environmental Samples	Enterobacteriaceae Plate Count	MB444-MEI Enumeration of Enterobacteriaceae - Petrifilm (AOAC 2003.01)	Petrifilm
Food Products, Pharmaceuticals, Environmental Samples	Identification of Microorganisms by DNA Sequencing	MB450-MEI Identification of Microorganisms by DNA Sequencing	DNA Sequencing
Food Products, Pharmaceuticals, Environmental Samples	Bacterial Sub-typing by Pulsed Field Gel Electrophoresis	MB454-MEI Bacterial Sub-typing by Pulsed Field Gel Electrophoresis	Pulsed Field Gel Electrophoresis
Food Products, Pharmaceuticals, Environmental Samples	Microscopic Analysis of Microorganisms	MB457-MEI Microscopic Analysis of Microorganisms	Light Microscope
Food Products, Pharmaceuticals, Environmental Samples	Phenotypic Analysis of Microorganisms	MB473-MEI Phenotypic Analysis of Microorganisms	IEH Method VITEK Analyzer
Food Products, Pharmaceuticals, Environmental Samples	Process Control Index (PCI) Testing	MB491 Process Control Index (PCI) Testing	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	Yeast & Mold Count	MB492-MEI Yeast & Mold Count - Petrifilm (AOAC 997.02)	Petrifilm
Food Products, Pharmaceuticals, Environmental Samples	Bacillus cereus Group Toxins	MB505-MEI Detection of <i>Bacillus cereus</i> Group Toxins by PCR	Multiplex PCR System
Food Products, Pharmaceuticals, Environmental Samples	IEH-APC-MPN (12 hours)	MB704 Enumeration of Aerobic Bacteria by IEH-MPN Method (IEH-APC-MPN, 12 hours)	IEH Method

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Food Products, Pharmaceuticals, Environmental Samples	IEH-ACE-MPN (24 hours)	MB705 Enumeration of Aerobic Bacteria, Total Coliforms and Generic Escherichia coli by IEH-MPN Method (IEH-ACE-MPN, 24 hrs)	IEH Method
Food Products, Pharmaceuticals, Environmental Samples	Salmonella sp.	MB921 BAX System PCR Assay Salmonella USDA MLG 4 (AOAC 992.11)	BAX Method
Food Products, Pharmaceuticals, Environmental Samples	E. coli O157:H7	MB922 BAX System PCR Assay <i>E.</i> coli O157:H7 MP USDA MLG 5	BAX Method
Food Products, Pharmaceuticals, Environmental Samples	3-Tube MPN and 5-Tube MPN Coliform / FC / generic <i>E. coli</i>	MB923 Multiple Tube Fermentation Method FDA BAM, 8 <sup>th</sup> ed. (SM9221)	Multiple Tube Fermentation
Food Products, Pharmaceuticals, Environmental Samples	Total Coliforms / Fecal Coliforms / E. coli	MB923 Examination of Water and Wastewater for Total Coliforms, Fecal Coliforms and <i>E. coli</i> (SM 9221)	Multiple Tube Fermentation
Food Products, Pharmaceuticals, Environmental Samples	Total Coliforms / E. coli	MB928 Detection and Enumeration of Both Total Coliforms (TC) and Escherichia coli (E. coli) by Membrane Filtration USEPA 1604	Membrane Filtration
Food Products, Pharmaceuticals, Environmental Samples	Pathogenic E. coli	MB929 Isolation and Identification of Pathogenic E. coli (BAM: Diarrheagenic E. coli Bacteriological Analytical Manual Chapter 4a)	FDA BAM Method
Food Products	Gluten	MB538 Detection of gliadin (gluten) by ELISA	ELISA system
Food Products	Various	MB539 Detection of Allergen Residue by ELISA	ELISA system
Food Products	Sesame protein	MB540 Detection of Sesame seed protein Residue by ELISA	ELISA system

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Plant/Food Material, Animal Tissue, Bacterial Cells	Nucleic acids	MB541 Nucleic acid extraction procedure	Enzymatic Digestion
Plant/Food material	GMO Detection Screening elements: P35S, NOS, FMV; Corn: T25, CBH351, MON810, GA21, Bt176, Bt11, NK603,TC1507, Mon863, DAS 59122, MIR 604, Event 3272, MON 88017, MON 89034, MIR 162; Soy: A2704-12, A5547-127, GTS 40-3- 2, FG72, MON 87701, MON 89788, DP305426, DP356043, Cotton: 3006-213, Event 1, COT67B, GHB614, LL cotton25, MON 15985, MON 1445; Potato: 1210amk, EH92-527-1; Sugarbeets: H7-1	MB544 Detection and Identification of GM crops by Multiplex PCR	Multiplex PCR
Beef Blood Meal, Cat Food, Dog Food, Feather Meal, Fish Meal, Pet Treats, Pork Blood Meal, Pork Meat & Bone Meal, Poultry Meal, Turkey Meal	Ruminant material	RE121.02 Reveal Procedure for Ruminant in MBM	Immunoassay

#### Notes:

- 1. \* = As Applicable
- 2. This scope is part of and must be included with the Certificate of Accreditation No. AT- 1516
- 3. Microbial testing is performed in compliance with the AOAC International Accreditation Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Foods, Feeds, and Pharmaceutical Testing and in compliance with US FDA cGMP requirements as specified in 21CFR Parts 210 and 211.

Vice President

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