



**AAFCO**  
Association of American Feed Control Officials

**Microbiology Hands-on Workshop Agenda**  
**April 25-28, 2023**

**Colorado Department of Agriculture, Division of Laboratory Services (DLS)**  
**300 South Technology Court, Broomfield CO**

<b>Tuesday April 25</b>	<b>Day 1 Agenda</b>	<b>Proposed Speaker/Trainer</b>
8:00 am	Welcome, Staff and Student Introductions	Eric Petty, CDA-DLS Division Director
	Course Overview and Laboratory Safety/Housekeeping	Kristi McCallum, CDA-DLS BCL Laboratory Manager
	<b>Lecture:</b> Introduction to Foodborne Illness	Kristi McCallum
	<b>Lecture:</b> Overview of Method Algorithms: <i>E. coli</i> O157:H7, <i>Salmonella</i> spp. and <i>Listeria monocytogenes</i>	Dominika Kondratko
<b>Break (15 minutes)</b>		
	<i>Laboratory Exercise: Salmonella, E. coli O157:H7 and Listeria Sample Set-up, enrichment, and Incubation</i>	CDA Micro Lab Staff
<b>Lunch (provided)</b>		
	<i>Laboratory Exercise: Salmonella, E. coli O157:H7 and Listeria Sample Set-up and Incubation</i>	CDA Micro Lab Staff
	<b>Lecture:</b> Standard Microbiological Methods (Reference Methods)	Kristi McCallum
<b>Break</b>		
	<b>Lecture:</b> Question regarding Day 1 Method Algorithms: <i>E. coli</i> , <i>Salmonella</i> spp. and <i>Listeria</i> spp. AND Overview of Day 2 Laboratory Processes	Dominika Kondratko, Kristi McCallum
	<i>Laboratory Exercise: Addition of supplement for E. coli O157:H7 and re-incubation</i>	CDA Micro Lab Staff
5:00	<b>Adjourn</b>	



<b>Wednesday April 26</b>	<b>Day 2 Agenda</b>	<b>Proposed Speaker/Trainer</b>
8:00 am	<b>Lecture:</b> Overview of PCR	Dominika Kondratko/Kristi McCallum
	<b>Lecture:</b> Defensible Data Packets	Kristi McCallum
<b>Break (15 minutes)</b>		
	<i>Laboratory Exercise: Salmonella Selective Enrichment (RV/TT) transfer and Listeria transfer to secondary enrichment</i>	CDA Micro Lab Staff
	<i>Laboratory Exercise: E. coli PCR using ABI, Demonstrate the BAX rt-O157</i>	Dominika Kondratko
<b>Lunch (provided)</b>		
	<b>Lecture:</b> E. coli O157:H7 and STEC	Dominika Kondratko, Kristi McCallum
	<i>Laboratory Exercise: Observe E. coli PCR Results; E. coli Plating for isolation/confirmation</i>	CDA Micro Staff
<b>Break (15 minutes)</b>		
	<b>Lecture:</b> Questions regarding Day 2 Method Algorithms: E. coli, Salmonella spp. and Listeria spp. and Discussion of Day 3 Laboratory Processes	Kristi McCallum, Dominika Kondratko
5:00	<b>Adjourn</b>	



<b>Thursday April 27</b>	<b>Day 3 Agenda</b>	<b>Proposed Speaker/Trainer</b>
8:00 am	<i>Laboratory: Transfer Salmonella Selective Enrichments to M-Broth</i>	CDA Micro Staff
	<b>Lecture:</b> Salmonella	Dominika Kondratko
<b>Break (15 minutes)</b>		
	<b>Lecture:</b> Listeria	Kristi McCallum
	<b>Lecture:</b> Validation and Verification of Analytical Methods	Kristi McCallum
<b>Lunch (provided)</b>		
	<i>Laboratory: VIDAS SLM and LMO2 Set-up and Assay</i>	CDA Micro Staff
	<b>Lecture:</b> Importance of ISO17025 accreditation and AOAC Requirements in a Microbiology Laboratory	Ellen LaRiviere, QAM
<b>Break (15 minutes)</b>		
	<i>Laboratory: Review VIDAS Results; Streak Selective Agar for Salmonella and Listeria; Observe E. coli Plates From demo plates: Set-up and practice LIA/TSI slants, Salmonella O/H anti-sera, Listeria hemolysis and oxidase</i>	CDA Micro Staff
5:00	<b>Adjourn</b>	



<b>Friday April 28</b>	<b>Day 4 Agenda</b>	<b>Proposed Speaker/Trainer</b>
8:00 am	<b>Lecture:</b> Traceability Exercise (Find what is wrong with data packets)	Ellen LaRiviere, Kristi McCallum
	<i>Laboratory: Observe TSI and LIA, Observe Salmonella and Listeria confirmation results</i>	CDA Micro Staff
<b>Break (15 minutes)</b>		
10:30	<i>Laboratory: Demo VITEK Biochemical Identification and API with Overview for all 3 pathogens</i>	CDA Micro Staff
12:00	<b>Laboratory Practical and Evaluation</b>	CDA staff to proctor test
12:30 pm	<b>Adjourn*</b>	Eric Petty and Kristi McCallum

*\*Certificates of completion will be provided to participants post workshop.*