

FLAG:

ANALYST WORKSHEET		1. PRODUCT Environmental Swabs		2. SAMPLE NUMBER 713432	
3. SEALS <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NONE <input type="checkbox"/> BROKEN		4. DATE RECEIVED 09/11/11	5. RECEIVED FROM Paul Teitell		6. DISTRICT OR LAB DEN-DO
7. DESCRIPTION OF SAMPLE One large, plastic bag officially sealed "713432 9/10/11 Kathryn Mogen, CSO" containing the 39 larger whirl-pak bags each containing a whirl-pak bag containing each respective swab each identified "713432 9-10-11 KMM Sub # [1-39]" and two collector's controls each identified "713432 9-10-11 KMM Sub A" and "713432 9-10-11 KMM Sub B."					
8. NET CONTENTS		<input checked="" type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> NOT DETERMINED UNITS EXAMINED _____		9. LABELING ORIGINAL(S) SUBMITTED _____ COPIES SUBMITTED _____ <input checked="" type="checkbox"/> NONE	
10. SUMMARY OF ANALYSIS					
CONTAINER: Investigator's plastic whirl-pak bags.					
LABELING: None					
CODE: None					
PRODUCT: Appearance of swabs.					
ANALYSIS: Microbiological examination of 39 swabs for <i>Listeria monocytogenes</i> .					
METHOD: AOAC Official Method 999.06: " <i>Listeria</i> in Foods" Enzyme-Linked Immunofluorescent Assay (ELFA) VIDAS LIS Assay Screening Method, 2005 On-Line Version. BAM Online -January, 2001: Chapter 10 - " <i>Listeria monocytogenes</i> ", January 2003.					
RESULTS: <i>Listeria monocytogenes</i> type 1 detected in subs 13, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 33, and 34. Collector's controls showed no growth.					
11. RESERVE SAMPLE None. Analyst destroyed remaining product. Official Seal submitted as Attachment B.					
12. a. ANALYST SIGNATURE (Broke Seal <input checked="" type="checkbox"/> <i>Stephanie Mogen</i>		13. WORK-SHEET CHECK		a. BY <i>R. WINTER</i>	
b. <i>Julie Benyon</i>				b. DATE <i>9/17/2011</i>	
<i>Janina Ogel</i>		14. DATE REPORTED		<i>09/17/11</i>	

CB-ACJ
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SFP 19 2011
AM CB4298

Denver District Laboratory Electronic Form 431
2006 Version 1.0

Route to:

DEN-DO / DLB

CLASS III

DOMESTIC - (7040)

PAGE 1 OF 9 PAGES

ATTACHMENT(S): A, B

Julie Benyon 9/17/2011

Boydman 9/19/11 288

GENERAL CONTINUATION SHEET		PRODUCT <i>Environmental Swabs</i>	SAMPLE NUMBER <i>713432</i>	
LISTERIA SPP. WORKSHEET: VIDAS SCREEN				
Enrichment	DATE/INITIALS	MEDIA/REAGENTS		
	<i>9.11.11</i> <i>ra</i>	BLEB	<i>090911A3</i>	
4 Hour Supplement Addition	DATE/INITIALS	MEDIA/REAGENTS		
	<i>9.11.11</i> <i>ra/mb</i>	Acriflavin <i>080311</i>	Cycloheximide <i>080311</i>	
		Sodium Nalidixate <i>091111</i>		
VIDAS LIS	DATE/INITIALS	CONTROLS		
	<i>9.13.11</i> <i>ra</i>	C1 Positive kit control \oplus / - C2 Negative kit control + / \ominus <i>L. innocua</i> ATCC 33090 \oplus / -		
Validation (Negative VIDAS only)	DATE/INITIALS:	MEDIA/REAGENTS		
	<input checked="" type="checkbox"/> N/A	PALCAM		
		PLATING RESULTS		Check
		All subs/composites confirmed negative by plating (NG or AT)		<input type="checkbox"/>
		Sub(s)/Comp(s) showed typical growth, see confirmation w/s		<input type="checkbox"/>
		Negative control (sterile media) remained sterile		<input type="checkbox"/>
		<i>E. coli</i> ATCC 8739 showed no growth/atypical growth		<input type="checkbox"/>
		<i>L. innocua</i> ATCC 33090 showed typical growth		<input type="checkbox"/>
KEY: G = Growth NG = No growth AT = Growth not typical of <i>Listeria</i> spp.				
System and Collector's Controls	DATE/INITIALS	System Control	G / NG	
	<i>NT</i> <i>9.12.11</i> <i>ra</i> <input type="checkbox"/> N/A	Gloves	G / NG	
		Closed Bag	G / NG	
			G / NG	
Equipment and Misc. Media	INCUBATORS	VIDAS INSTRUMENTS	MEDIA/EQUIPMENT	
	<input checked="" type="checkbox"/> 30°C NC91854	<input type="checkbox"/> System 1 VIDAS 1: 1700093	Balance <i>NC91332</i>	
	<input type="checkbox"/> 30°C 1700642	<input type="checkbox"/> System 1 VIDAS 2: 1700674	Blenders	
	<input type="checkbox"/> 30°C 1700814	<input checked="" type="checkbox"/> System 2 VIDAS 1: 1702171	Spoons	
	<input type="checkbox"/> 35°C NC91853	<input checked="" type="checkbox"/> System 2 VIDAS 2: 1702173	Butterfield's <i>082311A2</i>	
	<input type="checkbox"/> 35°C 1700810	<input type="checkbox"/> System 3 VIDAS 1: 1702170	BHI Broth <i>051211B1</i>	
	<input type="checkbox"/> 35°C 1700811	<input type="checkbox"/> System 3 VIDAS 2: 1702168	Test Tubes <i>082211A2</i>	
	<input type="checkbox"/> 35°C 1700812	<input type="checkbox"/> System 4 VIDAS 1: 1700799	TSA Plates	
	<input type="checkbox"/> 35°C 1702136	<input type="checkbox"/> System 4 VIDAS 2: 1700800		
	<input type="checkbox"/> °C			
Controls	<i>Listeria innocua</i> ATCC 33090		Pipettor #:	
	<i>E. coli</i> ATCC 8739		Validation date:	
		Uninoculated (sterile) Media		
Summary of Results	<input type="checkbox"/> No <i>Listeria</i> Detected.			
	<input checked="" type="checkbox"/> Cannot Rule Out <i>Listeria</i> (CRO). Refer to confirmatory worksheets for further testing.			
	<input checked="" type="checkbox"/> Controls Performed Properly.			
ANALYST(S) <i>Atchana P. Pous</i>		PAGE <u>2</u> of <u>9</u> PAGES		

GENERAL CONTINUATION SHEET	PRODUCT <i>Environmental Swabs</i>	SAMPLE NUMBER <i>713432</i>
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LISTERIA SPP. WORKSHEET: CONFIRMATION/DIRECT PLATES

ENRICHMENT <input checked="" type="checkbox"/> N/A Refer to VIDAS sheet	BLEB:	Date/Initials	Acriflavin:	Date/Initials
	Add antibiotics after 4 hr incubation		Cyclohexamide:	
			Sodium Nalidixate:	

COMP/SUB	Selective Agar		TSA-YE					Catalase					Gram Stain					Beta Hemolysis					Motility					Ident.	Summary		
	24 HR STREAK:	48 HR STREAK:																													
	24 HR READ 1:	48 HR READ 1:																													
N/A	24 HR READ 2:	48 HR READ 2:																					<input type="checkbox"/> Vitek <input checked="" type="checkbox"/> API List. SEE PAGE OR ATTACH:								
			A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E												
			A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E	A B C D E											
	24 Hr	Palcam																										<input type="checkbox"/> No <i>Listeria</i> spp. detected. <input checked="" type="checkbox"/> <i>Listeria</i> detected.			
	48 Hr	Palcam																													
		Chrom																													
	24 Hr	Palcam																										<input type="checkbox"/> No <i>Listeria</i> spp. detected. <input type="checkbox"/> <i>Listeria</i> detected.			
	48 Hr	Palcam																													
		Chrom																													
Sterile Media	24 Hr	Palcam																										<input checked="" type="checkbox"/> Controls performed properly			
	48 Hr	Palcam	NG																												
		Chrom																													
E.coli ATCC 8739	24 Hr	Palcam																										<input type="checkbox"/> Controls did not perform properly			
	48 Hr	Palcam	NG																												
		Chrom																													
L. innocua ATCC 33090	24 Hr	Palcam																										Pg. 8			
	48 Hr	Palcam	TY																												
		Chrom																													
L. mono ATCC 19115	48 Hr	Chrom																										Pg. 8			
S. pyogenes ATCC 19615																															
S. aureus ATCC 25923																															

TY = TYPICAL *LISTERIA SPP* GROWTH AT = ATYPICAL NG = NO GROWTH + = POSITIVE - = NEGATIVE N/A = NOT APPLICABLE
 + (GRAM STAIN) = GRAM POSITIVE RODS - (GRAM STAIN) = GRAM NEGATIVE RODS

Sterile Swabs	API Listeria: <i>1000214221</i>	Poly O Type 1: <i>223001</i>	Microscope: <i>17001104</i>
BLEB: <i>08171105</i>	Saline: <i>090711A3</i>	Poly O Type 4: <i>223011</i>	Pipettor #: <i>N61075 N1103</i>
Palcam: <i>091211A2</i>	ZYM B: <i>1000252270</i>	Poly O Type 1&4:	Pipettor validated date: <i>9.30.11</i>
Chromogenic:	TSB-YE:	Vitek Card:	30 °C incubator: <i>N191254</i>
TSA-YE: <i>091311A1- Lot B</i>	Tryptose Broth: <i>162811A2</i>	Vitek System:	35 °C incubator: <i>1702159</i>
Blood Agar: <i>1189510</i>	FA Buffer:	Vitek Saline:	<i>H2O2 0.128E</i>
Motility: <i>04111105</i>			

ANALYST(S) <i>Antonio P. Poggio</i>	PAGE <u>6</u> OF <u>9</u> PAGES
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GENERAL CONTINUATION SHEET

PRODUCT

Environmental Swabs

SAMPLE NUMBER

713432

api Listeria

18-24 hour incubation at 36°C +/- 2 °C

DIM	ESC	αMAN	DARL	XYL	RHA	MDG	RIB	G1P	TAG	βHEM	OXIDASE	Serology	DATE:
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 13-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 20-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 21-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 22-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 23-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 24-A
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 26-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O ✓	9.16.11a
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 ✓	SUB #: 27-C
												TYPE 4	IDENT: <i>L. monocytogenes</i>
6		5			1		∅						

ANALYST(S)

Stephanie A Rogio

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api Listeria 18-24 hour incubation at 36°C +/- 2 °C

DIM	ESC	αMAN	DARL	XYL	RHA	MDG	RIB	G1P	TAG	βHEM	OXIDASE	Serology	DATE:
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input type="checkbox"/>	SUB #: <u>L. monocytogenes ATCC 19115</u>
												TYPE 4 <input checked="" type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅		P.aeruginosa ATCC 9027 Oxidase: <u>Positive</u>				
1	2	4	1	2	4	1	2	4	1			POLY O <input type="checkbox"/>	<u>9-16-11 RA</u>
+	+	+	+	-	+	+	-	-	-	-	-	TYPE 1 <input type="checkbox"/>	SUB #: <u>L. innocua ATCC 33090</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. innocua</u>
7		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input checked="" type="checkbox"/>	SUB #: <u>28-C</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input checked="" type="checkbox"/>	SUB #: <u>29-A</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input checked="" type="checkbox"/>	SUB #: <u>30-C</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input checked="" type="checkbox"/>	SUB #: <u>33-C</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input checked="" type="checkbox"/>	<u>9-16-11 RA</u>
-	+	+	+	-	+	+	-	-	-	+	-	TYPE 1 <input checked="" type="checkbox"/>	SUB #: <u>34-B</u>
												TYPE 4 <input type="checkbox"/>	IDENT: <u>L. monocytogenes</u>
6		5			1		∅						
1	2	4	1	2	4	1	2	4	1			POLY O <input type="checkbox"/>	DATE: _____
												TYPE 1 <input type="checkbox"/>	SUB #: _____
												TYPE 4 <input type="checkbox"/>	IDENT: _____

FORM FDA 431a (2010) Version 1.0

GENERAL CONTINUATION SHEET		PRODUCT <i>Environmental Swabs</i>	SAMPLE NUMBER <i>713432</i>
GENERAL EQUIPMENT / MEDIA / REAGENTS			
<i>Shigella</i> species:		<i>E. coli</i> O157:H7:	Miscellaneous:
2X <i>Shigella</i> broth		mBPWp	Balance
Novobiocin		2X mBPWp	Blenders
50 mL tubes		Acriflavin	Hockey sticks
1.5 mL tubes		Cefsulodin	Spoons/forks/forceps
200 µL tubes		Vancomycin	Test tubes
PBS		Master Mix	Wooden applicators
Sterile water		SC Tubes	BHI broth
Master Mix		TC-SMAC	Butterfield's
Agarose		R&F agar	3% H ₂ O ₂
Dye		L-EMB	0.85% PSS <i>090711A3</i>
Ladder		TSA-YE	TSA
EtBr		Kovac's	TSA-YE
5X TBE		CC Discs	Sterile water <i>07211B2</i>
Shig. Rainbow agar		RIM kit	Mineral oil
MacConkey agar			Gram Stain kit
		<i>S. aureus</i> / <i>E. coli</i> MPN:	Oxidase disks
<i>Listeria</i> species:		Buffer liter	VITEK Cards
Enrichment broth		Buffer dilutions	api 20e
Palcam		TSB/NaCl/pyruvate	Refrigerator
Chromogenic		BP agar	Freezer
TSA-YE		BHI broth	Shaker
Blood agar		Coagulase Plasma	
Motility		LST	<i>0.43% BSS 002811A2</i>
api Listeria		CC Discs	Oxidase disc <i>0300170</i>
TSB-YE		EC broth	Formaldehyde <i>XX0708</i>
Tryptose broth		Tryptone broth	Sterile epi tubes <i>090711A4</i>
FA buffer		Kovac's	
Poly O		MR-VP broth	Iodine <i>212542</i>
Type 1		MR indicator	Safranin <i>212531</i>
Type 4		α-naphthol	Decolorizer <i>212527</i>
		40%KOH	Crystal Violet <i>212525</i>
		Citrate broth	
Incubators:		Shaker Incubators:	Centrifuges:
<input type="checkbox"/> 30°C NC90511		<input type="checkbox"/> 37°C NC91427	<input type="checkbox"/> NA13964
<input type="checkbox"/> 30°C NC91854		<input type="checkbox"/> 37°C NC91279	<input type="checkbox"/> NC91984
<input type="checkbox"/> 30°C NC91231		<input type="checkbox"/> 37°C 1700701	<input type="checkbox"/> 0620581
<input type="checkbox"/> 35°C NC91853		<input type="checkbox"/> ____ °C:	<input type="checkbox"/> 1700684
<input type="checkbox"/> 35°C NC90468			<input type="checkbox"/> IEC 1700322
<input type="checkbox"/> 35°C NC90625			<input checked="" type="checkbox"/> NC1029
<input type="checkbox"/> 35°C NC90585		Waterbaths:	PCR:
<input type="checkbox"/> 35°C NC91232		<input type="checkbox"/> 42°C NA13905	<input type="checkbox"/> MM hood: NC91825
<input type="checkbox"/> 35°C NC90615		<input type="checkbox"/> 43°C NA13904	<input type="checkbox"/> DNA hood: NC91933
<input type="checkbox"/> 35°C 1702159		<input type="checkbox"/> 42°C NA13944	<input type="checkbox"/> PE 9700: 1700529
<input type="checkbox"/> 37°C NC91855		<input type="checkbox"/> 43°C NA13945	<input type="checkbox"/> PE 9700: 1702155
<input type="checkbox"/> 42°C NC91852		<input type="checkbox"/> ____ °C:	<input type="checkbox"/> GelDocXR: NA13977
<input type="checkbox"/> 55°C NC90632		VITEK 2 Compact:	SmartCyclerII:
<input type="checkbox"/> ____ °C:		<input type="checkbox"/> 1702096	<input type="checkbox"/> 1700203
<input type="checkbox"/> ____ °C:			
ANALYST(S) <i>Stephanie A. Brown</i>		PAGE <u>9</u> of <u>9</u> PAGES	

FLAG:

ANALYST WORKSHEET		1. PRODUCT <i>Listeria Isolate(s)</i>		2. SAMPLE NUMBER 713432	
3. SEALS <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NONE <input type="checkbox"/> BROKEN		4. DATE RECEIVED 09/14/2011		5. RECEIVED FROM Stephanie A. Rogers	
6. DISTRICT OR LAB DEN-DO					
7. DESCRIPTION OF SAMPLE Thirteen plates identified "432" with each sub additionally identified "13C", "20C", "21C", "22C", "23C", "24A", "26C", "27C", "28C", "29A", "30C", "33C", and "34B".					

8. NET CONTENTS	<input checked="" type="checkbox"/> NOT APPLICABLE	DECLARE/UNIT	_____	9. LABELING	_____ ORIGINAL(S) SUBMITTED
	<input type="checkbox"/> NOT DETERMINED	AMOUNT FOUND	_____		_____ COPIES SUBMITTED
	_____ UNITS EXAMINED	% OF DECLARED	_____		<input checked="" type="checkbox"/> NONE

10. SUMMARY OF ANALYSIS

CONTAINER: Plastic Petri dish.

LABELING: None.

CODE: None.

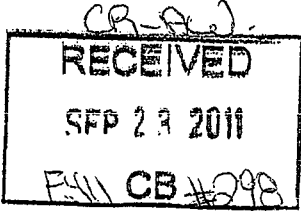
PRODUCT: *Listeria isolate(s)*.

ANALYSIS: Pulsed-field gel electrophoresis.

METHOD: CDC PFGE method (code PNL04): "Standard Operating Procedure for PulseNet PFGE of *Listeria monocytogenes*", PNL04, Effective date 10/30/2008". Plugs were made in disposable molds, lysed for 2 hours, washed 6 times for 15 minutes each (2x with water, 4x with TE buffer), and restricted for 60 minutes with *Asc I* and *Apa I* and overnight with *Asc I*.

RESULTS: See reverse of page 1, page 2, and page 3. Electronic tiffs FDN11072, FDN11073, FDN11074, FDN11076, FDN11077, and FDN11078 submitted to CFSAN.

Quality control data maintained in the Denver Laboratory.



11. RESERVE SAMPLE
Thirteen freezer vials each identified "713432 13C 9-15-11 TV", "713432 20C 9-15-11 TV", "713432 21C 9-15-11 TV", "713432 22C 9-15-11 TV", "713432 23C 9-15-11 TV", "713432 24A 9-15-11 TV", "713432 26C 9-15-11 TV", "713432 27C 9-15-11 TV", "713432 28C 9-15-11 TV", "713432 29A 9-15-11 TV", "713432 30C 9-15-11 TV", "713432 33C 9-15-11 TV", and "713432 34B 9-15-11 TV" containing the frozen isolate(s) in BHI Broth with 20% glycerol.

12. a. ANALYST SIGNATURE (Broke)Seal <input type="checkbox"/> <i>Tania Vogel</i>		13. WORK-SHEET CHECK	a. BY <i>Stephanie A. Rogers</i>
b. <i>Shauna M. Mason</i> (SHAUNA.M.MASON)			b. DATE <i>9/22/11</i>
c.			14. DATE REPORTED <i>09/21/11</i>

ATTACHMENT(S): _____

inserted on 9/22/11 KES

FDA PFGE TIFF Submission Worksheet



Gel Name FDN11072

TIFF Submission Date 2011-09-16

Organism Listeria

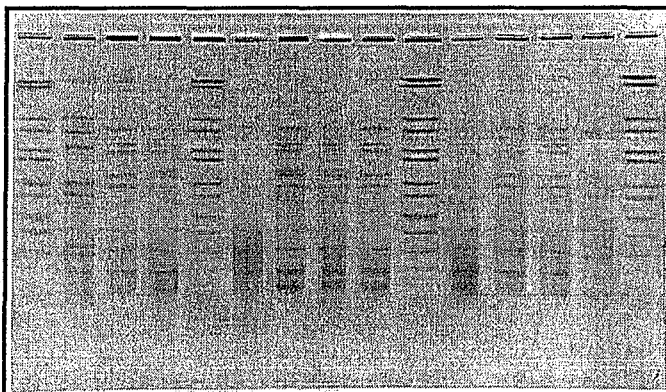
Gel Run Date 2011-09-15

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Global Standard	Xbal				
2		Ascl	713432	SUB 13	C	
3		Ascl	713432	SUB 20	C	
4		Ascl	713432	SUB 21	C	
5	Global Standard	Xbal				
6		Ascl	713432	SUB 22	C	
7		Ascl	713432	SUB 23	C	
8		Ascl	713432	SUB 24	C	
9		Ascl	713432	SUB 26	C	
10	Global Standard	Xbal				
11		Ascl	713432	SUB 27	C	
12		Ascl	713432	SUB 28	C	
13		Ascl	713432	SUB 29	C	
14		Ascl	713432	SUB 30	C	
15	Global Standard	Xbal				

Gel contains outbreak-related samples

Gel contains investigation-related samples

If boxes above are checked, please provide contact names for results reporting in comments section below.



Click to Show TIFF Image

Comments

CHEF DR-III, 19h
Fermentas Enzymes

Backed

ANALYST(S)

Jana Vogel

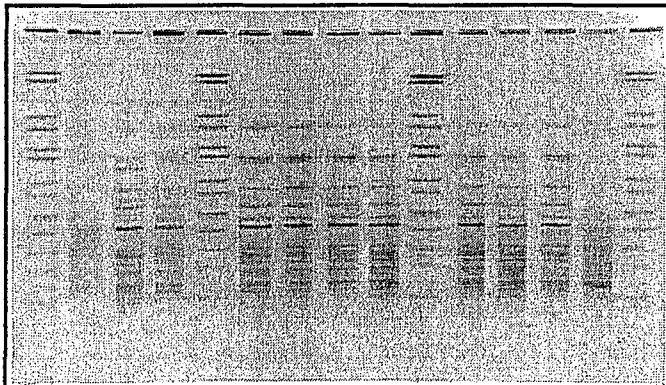
FDA PFGE TIFF Submission Worksheet

Print Form

Gel Name FDN11073	TIFF Submission Date 2011-09-16
Organism Listeria	Gel Run Date 2011-09-15

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Global Standard	Xbal				
2		Apal	713432	SUB 13	C	
3		Apal	713432	SUB 20	C	
4		Apal	713432	SUB 21	C	
5	Global Standard	Xbal				
6		Apal	713432	SUB 22	C	
7		Apal	713432	SUB 23	C	
8		Apal	713432	SUB 24	C	
9		Apal	713432	SUB 26	C	
10	Global Standard	Xbal				
11		Apal	713432	SUB 27	C	
12		Apal	713432	SUB 28	C	
13		Apal	713432	SUB 29	C	
14		Apal	713432	SUB 30	C	
15	Global Standard	Xbal				

- Gel contains outbreak-related samples
- Gel contains investigation-related samples
- If boxes above are checked, please provide contact names for results reporting in comments section below.



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Comments

CHEF DR-III, 19h
Fermentas Enzymes

FDA PFGE TIFF Submission Worksheet



Gel Name FDN11074

TIFF Submission Date 2011-09-16

Organism Listeria

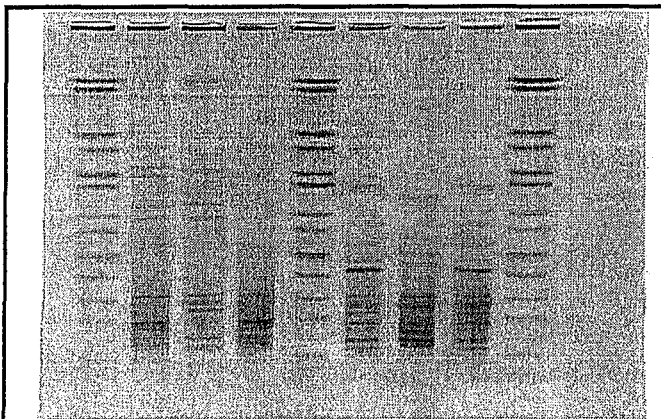
Gel Run Date 2011-09-16

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Global Standard	Xbal				
2		Ascl	713432	SUB 33	C	
3		Ascl	713432	SUB 34	C	
4		Ascl	713431	SUB 10B	E	
5	Global Standard	Xbal				
6		Apal	713432	SUB 33	C	
7		Apal	713432	SUB 34	C	
8		Apal	713431	SUB 10B	E	
9	Global Standard	Xbal				
10						
11						
12						
13						
14						
15						

Gel contains outbreak-related samples

Gel contains investigation-related samples

If boxes above are checked, please provide contact names for results reporting in comments section below.



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Comments

CHEF Mapper, 18h
Fermentas enzymes

Back of

ANALYST(S)

Mania Vogel

FDA PFGE TIFF Submission Worksheet

Print Form

Gel Name FDN11076

TIFF Submission Date 2011-09-18

Organism Listeria

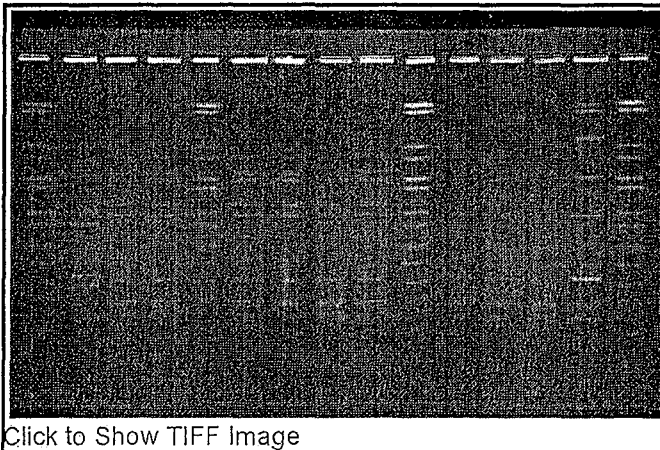
Gel Run Date 2011-09-17

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Global Standard	XbaI				
2		AscI	713432	13	C	
3		AscI	713432	20	C	
4		AscI	713432	21	C	
5	Global Standard	XbaI				
6		AscI	713432	22	C	
7		AscI	713432	23	C	
8		AscI	713432	24	A	
9		AscI	713432	26	C	
10	Global Standard	XbaI				
11		AscI	713432	27	C	
12		AscI	713432	28	C	
13		AscI	713432	29	A	
14		AscI	LM19115			
15	Global Standard	XbaI				

Gel contains outbreak-related samples

Gel contains investigation-related samples

If boxes above are checked, please provide contact names for results reporting in comments section below.



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Comments

Chef DR-III
19hrs
NEB

ANALYST(S)

Monia Vogel

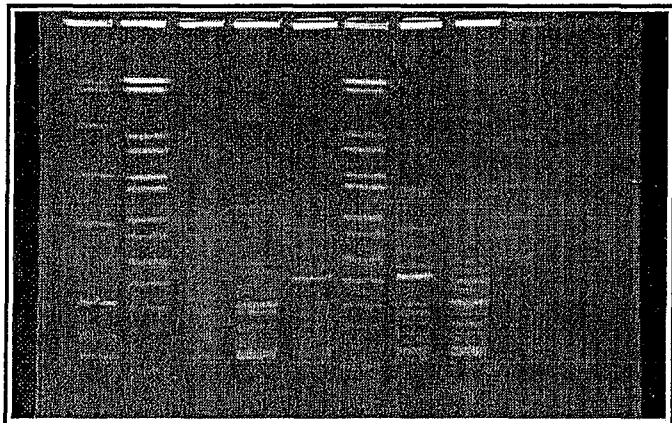
FDA PFGE TIFF Submission Worksheet

Print Form

Gel Name FDN11077 TIFF Submission Date 2011-09-18
 Organism Listeria Gel Run Date 2011-09-17

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Please Ignore					
2	Global Standard	XbaI				
3		AscI	713432	30	C	
4		ApaI	713432	13	C	
5		ApaI	713432	20	C	
6	Global Standard	XbaI				
7		ApaI	713432	27	C	
8		ApaI	713432	30	C	
9	Global Standard	XbaI				
10						
11						
12						
13						
14						
15						

- Gel contains outbreak-related samples
- Gel contains investigation-related samples
- If boxes above are checked, please provide contact names for results reporting in comments section below.



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Comments

Chef Mapper
 18.5hfs
 NEB AscI
 Fermentas ApaI

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FDA PFGE TIFF Submission Worksheet

Print Form

Gel Name FDN11078

TIFF Submission Date 2011-09-20

Organism Listeria

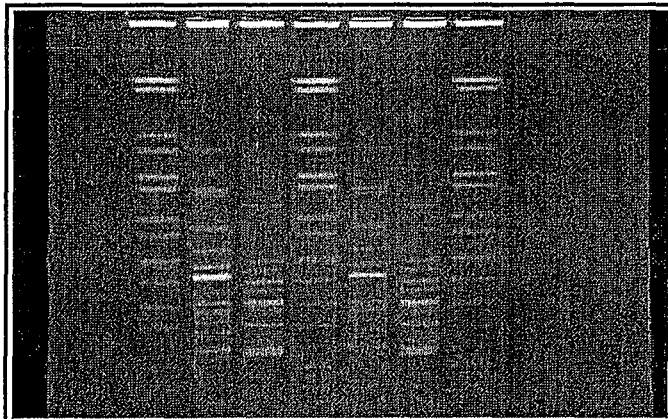
Gel Run Date 2011-09-19

Data Lane	Description	Enzyme	FACTS ID	Comp/Sub	Isolate	Other ID
1	Global Standard	Xbal				
2		Apal	713432	27	C	
3		Apal	713432	30	C	
4	Global Standard	Xbal				
5		Apal	713432	27	C	
6		Apal	713432	30	C	
7	Global Standard	Xbal				
8						
9						
10						
11						
12						
13						
14						
15						

Gel contains outbreak-related samples

Gel contains investigation-related samples

If boxes above are checked, please provide contact names for results reporting in comments section below.



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Comments

Chef Mapper
18.5hrs
Fermentas

Note: 1 plug/2 slices ran simultaneously for both isolates.

ANALYST(S)

Danica Dage