FSIS is making available a list of test kits that have been validated for detection of relevant foodborne pathogens (i.e., Salmonella, Campylobacter, Listeria spp. including L. monocytogenes, E. coli O157:H7 and non-O157 STEC). The list is intended to be informational and is not an endorsement or approval of any specific test kit, regardless of its inclusion in the list.

FSIS does not specifically endorse any of the mentioned test kits or products and acknowledges that equivalent test kits or products may be available for laboratory use. Likewise, FSIS does not require the use of any specific test kit, including those incorporated into FSIS's Microbiology Laboratory Guidebook methods. Instead, establishments and laboratories should choose test kits that are:

1) Validated for testing relevant foods by a:

a) Recognized independent body (i.e., AOAC, AFNOR, MicroVal, NordVal),

b) U.S. regulatory body (i.e., FSIS MLG or FDA BAM), or

c) International Organization for Standardization (ISO) process

2) In addition, the validated method should be:

a) Fit for the intended purpose and application (e.g., validated for the appropriate matrix and sample size to detect the appropriate foodborne pathogen), and

b) Performed per the conditions of the validated protocol by a laboratory that assures the quality of the analytical results.

The table below contains a list of foodborne pathogen test kits that are validated by recognized independent organizations (i.e., AOAC, AFNOR, MicroVal, NordVal) and therefore meet criterion 1a above. However, the test kits in this list are not necessarily equivalent or appropriate for all testing applications.

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S001a	3M™ Molecular Detection Assay Salmonella	Salmonella spp.	3M Health Care	AFNOR # 3M 01/11 - 11/12	All human food products (except spices, aromatic herbs, instant coffees and teas, bouillon cubes/concentrates, milk powders and cocoa powders) and environmental samples (except primary production stage environment)	25g
S001b	3M™ Molecular Detection Assay	Salmonella spp.	3M Food Safety	AOAC-PTM # 031208	Pasteurized liquid whole egg, raw ground beef, cooked breaded chicken, raw shrimp, bagged spinach, wet pet food (375a)	25g except where noted in "Validated Matrices"
S001c	3M™ Molecular Detection Assay (MDA) <i>Salmonella</i> Method	Salmonella spp.	3M Food Safety	AOAC-OMA # 2013.09	egg (100g), shrimp, fresh spinach, and	25g except where noted in "Validated Matrices"
S002a	3M™ TECRA™ <i>Salmonella</i> Visual Immunoassay	Salmonella spp.	3M Microbiology	AOAC-OMA # 989.14	All foods	25g
S002b	3M™ TECRA™ <i>Salmonella</i> Visual Immunoassay	Salmonella spp.	3M Microbiology	AOAC-OMA # 998.09	All foods	25g
S005a	ANSR™ for <i>Salmonella</i>	Salmonella enterica and Salmonella bongori	Neogen Corporation	AOAC-PTM # 061203	Raw ground beef, hot dogs (25g, 325g), chicken carcass rinse (30mL), raw ground turkey, oat cereal, surfaces (stainless steel, plastic, sealed concrete, ceramic tile, rubber)	25g except where noted in "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S005b	ANSR™ for Salmonella	Salmonella enterica	Neogen Corporation	AFNOR # NEO 35/02 - 05/13	Meat products, dairy products, seafood and vegetables	25g
	Assurance GDS® Salmonella	Salmonella spp.	BioControl Systems, Inc.	AFNOR # TRA 02/12 - 01/09	All human foodstuffs, animal feed and environmental samples	25g
S006b	Assurance GDS® Salmonella	Salmonella spp.	BioControl Systems, Inc.	AOAC-OMA # 2009.03	Meats, poultry, poultry carcass rinse, seafood, dairy products, egg, pasta, peanut butter, fruits and vegetables, spices (curry powder, chili powder, and cumin powder), and environmental surfaces	25g
S006c	Assurance GDS™ <i>Salmonella</i>	Salmonella spp.	BioControl Systems, Inc.	AOAC-PTM # 050602	Raw beef, raw pork, ground turkey, chicken rinse, raw shrimp, nonfat dry milk, egg, and environmental surfaces (stainless steel, rubber, concrete)	25g
S007	Assurance Gold EIA Salmonella	Salmonella spp.	BioControl Systems, Inc.	AOAC-OMA # 999.08	All foods	25g
S008	Assurance® <i>Salmonella</i> Enzyme Immunoassay (EIA) Test Kit	Salmonella spp.	BioControl Systems, Inc.	AOAC-OMA # 992.11	All foods	25g
	Atlas™ <i>Salmonella</i> Detection Assay	Salmonella enterica	Roka Biosciences, Inc.	AOAC-PTM # 031201	Fresh raw ground beef (375g), frozen raw ground beef (375g), chicken carcass rinse, raw ground chicken, cooked deli turkey (325g), cooked deli chicken (325g), pasteurized dried whole egg (100g)), raw cod, creamy non- organic peanut butter, romaine lettuce (375g), tomatoes, instant nonfat dry milk, string cheese (mozzarella), milk chocolate, cocoa powder (375g), raw cookie dough, dry pet food, dry pasta, shell eggs, nacho cheese seasoning, black pepper, soy flour, environmental surfaces (stainless steel, plastic, sealed Dairy products, meat, fish, venetables	25g except where noted in "Validated Matrices"
	BAX® Salmonella PCR (BAX® Classic and BAX® Q7) BAX® System with Automated Detection PCR Assay for Screening Salmonella	Salmonella spp.	Oxold, Thermo Fisher Scientific	NordVal # 030	pastries, egg products, ready to eat meals, animal feed, and environmental samples	25g
S010b	BAX® System PCR Assay for Salmonella	Salmonella spp.	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 100201	Milk (2%), custard, nonfat dry milk, liquid egg, chipped ham, cooked chicken, hot dogs, ground beef, cooked fish, prawns, frozen peas, orange juice, peanut butter, alfalfa sprouts, black pepper, dry pet food, chilled ready- meal, chocolate, elbow macaroni, pizza dough, isolated soy protein	25g
S010c	BAX® System PCR Assay <i>Salmonella</i> spp. (automated)	Salmonella spp.	DuPont Qualicon	AFNOR # QUA 18/03 - 11/02	All human food products, animal feed and environmental samples (excluding environment of primary production stage)	25g
	BAX® System Salmonella	Salmonella spp.	Nutrition & Health Diagnostics)	AOAC-OMA # 2003.09	Frankfurters, raw ground beef, raw ground chicken, mozzarella cheese, raw frozen tilapia fish. and orange iuice	25g
S011	BBL™ CHROMagar™ Salmonella	Salmonella spp.	Becton Dickinson and Company	AOAC-PTM # 020502	Shell eggs, raw chicken, raw ground beef, raw fish, lettuce	N/A
	BioControl 1-2 TEST	Motile Salmonella spp.	BioControl Systems, Inc.	AOAC-OMA # 989.13	All foods	25g
S014	Check&Trace Salmonella (previously marketed as PermiTest Salmonella)	Salmonella spp.	Check-Points	AOAC-PTM # 121001	Pure cultures	N/Ā

** N/A = Not available

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S015	Colorimetric GENE-TRAK Salmonella Assav	Salmonella spp.	GENE-TRAK Systems/Neogen Corp.	AOAC-OMA # 990.13	All foods	25g
S016	foodproof® <i>Enterobacteriaceae</i> plus <i>E.</i> sakazakii combined with foodproof® Salmonella Detection Kit	Enterobacteriaceae, Salmonella spp.	BIOTECON Diagnostics GmbH	MicroVal # 2011-LR39	Powdered infant formula, probiotic culture powders, ingredients	Up to 100g
S017a	foodproof® Salmonella Detection Kit, Hybridization Probes and foodproof® Salmonella Detection Kit, 5' Nuclease with foodproof® ShortPrep I Kit	Salmonella spp.	BIOTECON Diagnostics GmbH	NordVal # 023	Foods, feeds and environmental samples (100cm ²)	25g except where noted in "Validated Matrices"
S017b	foodproof® Salmonella Detection Kit, Hybridization Probes for Salmonella spp. and foodproof® Salmonella Detection Kit, '5 Nuclease for Salmonella spp. in combination with foodproof® ShortPrep I Kit or StarPrep One Kit	Salmonella spp.	BIOTECON Diagnostics GmbH	AOAC-PTM # 120301	Milk powder, ice cream, egg powder, chicken breast, minced meat, sliced sausage, sausage, smoked fish, watermelon, sliced cabbage, coconut, white pepper, cumin, wet pet food, dry pet food, dough, food dye, milk chocolate, cocoa powder, pasta, custard, chocolate ice cream, raw ground beef, mayonaisse, primary production samples (boot socks with	25g
S018	GeneDisc® Plate Pathogenic <i>E. coli</i> O157 & Salmonella spp.	<i>E.</i> coli O157 & Salmonella spp.	Pall GeneDisc Technologies	AOAC-PTM # 021104	Fresh raw ground beef, fresh raw beef trim	25g, 375g
S019	GeneDisc STEC & Salmonella spp.		Pall GeneDisc Technologies	AOAC-PTM # 021105	Raw ground beef and raw beef trim	25g, 375g
S020a	GeneDisc® Salmonella spp.	Salmonella spp.	Pall GeneDisc Technologies	AFNOR # GEN 25/05 -11/08	All human food products and animal feeding stuffs	25g
	GeneDisc® Plate Salmonella	Salmonella spp.	Pall GeneDisc Technologies	AOAC-PTM # 021101	Raw ground beef (25g, 375g) and raw beef trim (25g, 375g), raw chicken breast (25g, 375g), raw ground turkey, (25g, 375g), chicken carcass rinsates (30ml), raw de-headed shrimp, fresh cut cantaloupe, whole cantaloupe, bagged ready to eat mixed lettuce, creamy non- organic peanut butter, raw alfalfa sprouts, instant nonfat dry milk, cheddar cheese, vanilla ice cream, milk chocolate, dry dog food (25g,375g), black pepper, shell eggs, spent sprout irrigation water (375g), stainless steel,	25g except where noted in "Validated Matrices"
S021a	GeneQuence® Salmonella	Salmonella spp.	Neogen Corporation	AOAC-OMA # 2007.02	Raw turkey, dried, liquid and liquid frozen pasteurized eggs, milk chocolate, and dry pet food	See Manufacturer's quidance
3021b	GeneQuence® Salmonella	Salmonella spp.	Neogen Corporation	AOAC-PTM # 030201	Dried whole egg, nonfat dry milk, cheese powder, raw pooled shell egg, raw ground pork, beef franks, raw ground turkey, raw ground chicken, raw fish fillet, surimi, dried fruit, fresh mushrooms, frozen fruit, black pepper, dry pet food, dry cake mix, shelled walnuts, semi-sweet chocolate, refrigerated cookie dough, soy flour,	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
	IEH <i>E. coli</i> O157, Stx-producing <i>E. coli</i> (STEC) with Intimin and <i>Salmonella</i> Test System	<i>E. coli</i> O157, Stx- producing <i>E. coli</i> (STEC) with intimin & <i>Salmonella</i> ** <i>E. coli</i> 026, O45, O103, O111, O121 & O145	IEH Laboratories & Consulting Group	AOAC-PTM # 100701	trim (25g, 375g), raw poultry, RTE turkey (omitted for STEC) & mixed leafy greens	25g except where noted in
S026	InstantLabs® <i>Salmonella</i> Species Food Safety Kit	Salmonella spp.	InstantLabs Medical Diagnostics Corporation	AOAC-PTM # 031202	Raw ground beef (375g), raw chicken breast, raw ground chicken, lettuce, rolled oats (750g), oat flour (750g), wheat flour (750g)	25g except where noted in "Validated Matrices"
S027a	iQ-Check™ <i>Salmonella</i> II Kit	Salmonella spp.	Bio-Rad Laboratories	AFNOR # BRD 07/06 - 07/04	All human and animal food products, production environment samples, and animal faeces and environmental samples from the primary production stage	25g
S027b	iQ-Check™ <i>Salmonella</i> II Kit	Salmonella spp.	Bio-Rad Laboratories	AOAC-PTM # 010803	Whole eggs, raw beef, raw ground chicken (25g and 375g), cantaloupe, peanut butter, raw pork, fresh spinach, ceramic, concrete, plastic, stainless steel, dry dog food (25g and 375g), wet cat food, and ready to eat deli ham (375g) milk chocolate (375g), raw milk cheese (375g), and 30ml carcass	25g except where noted in "Validated Matrices"
S027c	iQ-Check™ <i>Salmonella</i> II Kit	Salmonella spp.	Bio-Rad Laboratories	NordVal # 038	Meat products, dairy products, fish- based and vegetable products, egg products, animal feed, and environmental samples	25g
S027d	iQ-Check™ S. Enteritidis	S. Enteritidis	Bio-Rad Laboratories	AOAC-PTM # 081903	Raw chicken breast with skin, raw chicken breast without skin, raw chicken breast without skin containing 2% w/w salt, raw chicken thigh with skin, raw chicken thigh without skin.	25g
S027e	iQ-Check™ S. Typhimurium	S. Typhimurium	Bio-Rad Laboratories	AOAC-PTM # 081904	Raw chicken breast with skin, raw chicken breast without skin, raw chicken breast without skin containing 2% w/w salt, raw chicken thigh with skin, raw chicken thigh without skin.	25g
S028	IRIS Salmonella®	Salmonella spp.	SOLABIA SAS	AFNOR # BKR 23/07 - 10/11	All human food products, animal feeding stuffs and production environment samples (except primary	25g
S029	LOCATE® Salmonella Assay Kit	Salmonella spp.	Rhone-Poulenc	AOAC-OMA # 997.16	All foods	25g
S031	Microgen GNA ID	Salmonella spp.& E. coli	Microgen Bioproducts Limited	AOAC-PTM # 061101	Pure culture	N/A
S032a	MicroSEQ® Salmonella spp.	Salmonella spp.	Life Technologies Corporation, Part of Thermo Fisher Scientific	AFNOR # ABI 29/02 - 09/10	All human food products (including meat products) and animal feeding stuffs, animal feces, and environmental samples from primary production stage	25g

	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S032b	MicroSEQ® Salmonella spp. Detection Kit	Salmonella spp.	Thermo Fisher Scientific	AOAC-PTM # 031001	Raw ground beef, raw chicken wings, raw shrimp, cantaloupe, brie, dry infant formula, chocolate, dry pet food, shell eggs, black pepper, peanut butter (25 g); stainless steel, sealed concrete, plastic, ceramic tile, rubber; 10-pooling Salmonella spp. for fresh diced tomatoes, chocolate, and deli ham; dry pet food (375 g)	25g except where noted in "Validated Matrices"
S035	Pathatrix Pooling System for <i>Salmonella</i> species	Salmonella spp.	Life Technologies (Part of Thermo Fisher Scientific)	AOAC-PTM # 090203C	Raw ground chicken, pasteurized liquid egg, raw ground beef, cooked sliced ham, milk powder, orange juice, black ground pepper, chocolate, soft cheese, produce, raw fish, lasagna (ready meal), cooked ham, raw whole egg,	25g
S036	Pathotec Cytochrome Oxidase Test MICRO- ID® Identification Kit	<i>Salmonella</i> spp., <i>E. coli</i> , and other Enterobacteriaceae	Remel	AOAC-OMA # 989.12	N/A	N/A
S037	PDX-SIB	Salmonella spp.	Paradigm Diagnostics, Inc.	AOAC-PTM # 071102	Environmental surfaces (Stainless steel, plastic, ceramic tile & sealed	N/A
S038a	RAPID'Salmonella	Salmonella spp.	Bio-Rad Laboratories	AFNOR # BRD 07/11 - 12/05	All human and animal food products and environmental samples (excluding those from primary production environment)	25g
S038b	RAPID'Salmonella	Salmonella spp.	Bio-Rad Laboratories	AOAC-PTM # 050701	Raw chicken breast, eggs, cantaloupe, and peanut butter	25g
S038c	RAPID'Salmonella	Salmonella spp.	Bio-Rad Laboratories	NordVal # 032	Foods, animal feeds, and environmental samples	25g
	RapidChek® SELECT™ <i>Salmonella</i> Test	Salmonella spp.	Romer Labs Technology, Inc.	AOAC-PTM # 080601	Liquid eggs, raw ground beef, raw ground chicken, chicken carcass rinsates (30ml), sliced cooked turkey, and environmental surfaces painted concrete (1x1 in), plastic (4x4 in), rubber (4x4 in), stainless steel 4x4 in, 12x12 in), ground beef (375g)	25g except where noted in "Validated Matrices"
	RapidChek® SELECT [™] Salmonella Enteritidis Test System & RapidChek CONFIRM Salmonella Enteritidis Immunomagnetic Separation (IMS) Kit	Salmonella Enteritidis and other D1 serovars	Romer Labs, Inc.	AOAC-PTM # 111002	Poultry house environmental drag swabs, egg pools, chicken carcass rinsates	N/A
S043a	Reveal® Salmonella 2.0	Salmonella spp.	Neogen Corporation	AFNOR # NEO 35/01 - 10/11	Meat products, dairy products (except milk powders, egg products, seafood and vegetables (except dehydrated products)	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S043b	Reveal® 2.0 <i>Salmonella</i>	Salmonella enterica of serogroups A-E	Neogen Corporation	AOAC-PTM # 960801	Powdered milk, ice cream, raw ground beef, raw ground chicken, raw ground pork, raw ground sausage, raw ground turkey, cooked chicken, hot dogs, ready- to-eat meal product, chicken carcass rinse, beef skin, pork skin, picked crab meat, raw shrimp, cantaloupe, fresh spinach, peanut butter, liquid eggs, frozen whole eggs, dry pet food, soybean meal, poultry feed, sprout irrigation water, environmental surfaces (stainless steel)	25g
S044a	RIDASCREEN® Salmonella	Salmonella spp.	R-Biopharm AG	AFNOR # RBP 31/01 - 06/08	All human food products, animal feed and environmental samples (except samples of primary production)	25g
S045	Salmonella detection method by real-time PCR	Salmonella spp.	Eurofins	NordVal # 041	Raw meat and swabs from beef and pork carcasses	25g
S048	Salmonella PRECIS™	Salmonella spp.	OXOID Ltd	AFNOR # UNI 03/06 - 12/07	All human and animal food products and environmental samples (excluding breeding samples)	25g
S049	Salmonella Rapid Culture Method using ONE Broth Salmonella & Brilliance™ Salmonella	Salmonella spp.	Thermo Fisher Scientific	AOAC-PTM # 120802	Ground beef, ground chicken, lettuce, shrimp & shell eggs	25g
S050	Salmonella-Tek ELISA Test System	Salmonella spp.	Organon Teknika Corp.	AOAC-OMA # 993.08	All foods	25g
S051	Salmonella - Tek Screen Kit	Salmonella spp.	Organon Teknika Corp.	AOAC-OMA # 986.35	All foods	25g
S052	Salmonella-Tek Screen Kit	Salmonella spp.	Organon Teknika Corp.	AOAC-OMA # 987.11	All foods other than raw foods or foods with a high microbial load	25g
S054	SESAME Salmonella Test	Salmonella spp.	SOLABIA SAS	AFNOR # BKR 23/04 - 12/07	All human and animal food products and environmental samples (with the exception of environment of primary production stage)	25g
S055	Simple Method for <i>Salmonella</i> (SMS™)	Salmonella spp.	bioMérieux	AFNOR # AES 10/04 - 05/04	All food products, animal feed and environmental samples (excluding rearing environment)	25g
S056	Singlepath® <i>Salmonella</i>	Salmonella spp.	Merck KGaA	AOAC-PTM # 060401	Dried skimmed milk, black pepper, dry pet food, desiccated coconut, cooked peeled frozen prawns, raw ground beef raw ground turkey	25g
S057b	SureFast Salmonella PLUS	Salmonella spp.	CONGEN Biotechnologie GmbH	AOAC-PTM # 041103	Salami, pork minced meat, bacon, fresh ground chicken, fresh chicken carcass, frozen marinated chicken filets, semi- skim milk powder, raw goat milk cheese, chocolate ice cream, salad with mayonnaise, paella, cream based pastry, dehydrated poultry proteins, wheat based flour, pet food pellets	
S060a	TRANSIA® PLATE Salmonella Gold	Salmonella spp.	BioControl Systems, Inc.	AFNOR # TRA 02/08 - 03/01	Food, animal feeding stuffs and environmental samples (excluding breeding samples)	25g
S060b	TRANSIA® PLATE Salmonella Gold	Salmonella spp.	BioControl Systems, Inc.	NordVal # 001	Meat products, dairy products, seafood products, vegetables and environmental samples	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S060c	Transia® Plate <i>Salmonella</i> Gold	Salmonella spp.	BioControl Systems, Inc.	AOAC-PTM # 010602	Cooked chicken, raw milk, cantaloupe, sausages, raw shrimps, yogurt, mayonnaise, shell eggs, frozen berries, currants, bean sprouts, raw ground beef, smoked fish (trout), fresh pasta, milk chocolate, ground black pepper, cake mix, dry milk-based infant formula, dry cat food, raw ground turkey, brie cheese	25g
S062a	VIDAS® Easy Salmonella	Salmonella spp.	bioMérieux, sa	AFNOR # BIO 12/16 - 09/05	All human and animal food products and environmental samples (except stock farming environment)	25g
S062b	VIDAS® Salmonella (VIDAS SLM) Dual selective enrichment	Salmonella spp.	bioMérieux, sa	AFNOR # BIO 12/01 - 04/94		25g
S062c	VIDAS® Salmonella (VIDAS SLM) Single selective enrichment	Salmonella spp.	bioMérieux, sa	AFNOR # BIO 12/10 - 09/02	All human food products and pet food	25g
	VIDAS® Salmonella (SLM) Assay Kit	Salmonella spp.	bioMérieux, Inc.	AOAC-OMA # 2004.03	Foods	25g
	VIDAS® Salmonella (SLM) Assay	Salmonella spp.	bioMerieux Vitek, Inc.	AOAC-OMA # 996.08	All foods	25g
S062f	VIDAS® <i>Salmonella</i> (SLM) Assay method Easy SLM with ChromID™ <i>Salmonella</i> (SM2) Agar	Salmonella spp.	bioMérieux, sa	AOAC-PTM # 020901	peeled shrimp, raw cod, cantaloupe, ground black pepper, bagged spinach, pecans, peanut butter, ice cream, liquid eggs, whole milk, non-fat dry milk, orange juice, dry pasta, cake mix, dry pet food, spent irrigation water, dog food, cat food, dark chocolate, rubber (4x4"), concrete (1x1"), ceramic (1x1"),	meat/poultry/egg and environmental samples
S062g	VIDAS® Salmonella (SLM) Easy Salmonella	Salmonella spp.	bioMérieux, sa	AOAC-OMA # 2011.03	butter, deli turkey, roast beef, raw ground pork, turkey, pork sausage, raw	Sample preparation and enrichment as per FSIS MLG Ch. 4 or FDA BAM Ch. 5
	VIDAS® Immuno-Concentration Salmonella (ICS) Kit		bioMérieux, sa	AOAC-OMA # 2001.07	All foods	25g
S063b	VIDAS® Immuno-Concentration Salmonella (ICS) Kit and Selective Plate (HE BS XLD) Screening	Salmonella spp.	bioMérieux, sa	AOAC-OMA # 2001.08	All foods	25g
	VIDAS® Immuno-Concentration Salmonella (ICS) Kit and Selective Plate (HE BS XLD) Screening Salmonella (SLM) Enzyme- Linked Immunofluorescent Assay (ELFA)	Salmonella spp.	bioMérieux, sa	AOAC-OMA # 2001.09	All foods	25g
S065a	VIDAS® Up Salmonella	Salmonella spp.	bioMérieux, sa	AFNOR # BIO 12/32 - 10/11	All human food products (except raw milk cheese), animal feeding stuffs and production environmental samples	25g
S065b	VIDAS® UP Salmonella (SPT)	Salmonella spp.	bioMérieux, sa	AOAC-PTM # 071101	Raw ground beef (25g, 375g, 675g), deli roast beef, chicken carcass rinsate,	25g except where noted in

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S065c	VIDAS® UP Salmonella (SPT)	Salmonella spp.	bioMérieux, sa	AOAC-OMA # 2013.01	Raw ground beef (25 and 375 g), processed American cheese (25 g), deli roast beef (25 g), liquid egg (25 g), peanut butter (25 g), vanilla ice cream (25 g), cooked shrimp (25 g), raw cod (25 g), bagged lettuce (25 and 375 g), dark chocolate (375 g), powdered eggs (25 g), instant nonfat dry milk (25 and 375 g), ground black pepper (25 g), dry dog food (375 g), raw ground turkey (375 g), almonds (375 g), chicken carcass rinsates (30 mL), and stainless steel, plastic, and ceramic	25g except where
S066	VIP Gold for Salmonella Assay	Salmonella spp.	BioControl Systems, Inc.	AOAC-OMA # 999.09	All foods	25g
S067	Vitek GNI+ Screening System	Salmonella spp. and other Enterobacteriaceae	bioMérieux, sa	AOAC-OMA # 991.13	N/A	N/A
S068	Vitek® 2 Gram-Negative (GN) Biochemical Identification System	Gram-negative bacteria	bioMérieux, Inc.	AOAC-OMA # 2011.17	N/A	N/A
S069	QIAGEN mericon Salmonella spp	Salmonella spp.	QIAGEN GmbH	AFNOR # QIA 36/01 - 02/13	All human food products, animal feed and environmental samples (except primary production stage environment)	25g
S070b	Solus Scientific Salmonella ELISA	Salmonella spp.	Solus Scientific Ltd.	AOAC-PTM # 051601	Raw chicken breast, raw salmon filet, bagged romaine lettuce, shredded cheddar cheese, instant non-fat dry milk, shell eggs, raw beef trim (375g), stainless steel environmental surface (swab, 1 x 1 in), polystyrene, environmental surface (sponge, 4 x 4	25g except where noted in "Validated Matrices"
	Atlas™ <i>Salmonella</i> G2 Detection Assay	Salmonella enterica	Roka Biosciences, Inc.	AOAC-PTM # 041303	(stainless steel, plastic, sealed concrete), peanut butter, raw almonds, string cheese, milk chocolate, cocoa powder, raw cookie dough, soy flour, whey powder, tomatoes, instant non-fat dried milk, chicken carcass rinse, pasteurized dried whole egg	"Validated Matrices"
S072a	Thermo Scientific ™ SureTect™ <i>Salmonella</i> species PCR Assay	Salmonella spp.	Oxoid Ltd. Part of Thermo Fisher Scientific	AOAC-PTM # 051303	(25 g; 1:10) Raw, ground: beef, pork frankfurters, raw chicken breast, bagged lettuce, non-fat dried milk powder, cooked shrimp, chilled ready-to- eat dinner, pasteurized liquid whole egg and stainless steel (4in x 4in, sponge), wet cat food, dry dog food, pasteurized 2% milk, bean sprouts, cantaloupe, chilled pizza dough, black peppercorns, peanut butter, ice cream, plastic surface, dark chocolate (85% cocoa solids), 20% fat raw ground beef (375g)	

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S072b	Thermo Scientific SureTect Salmonella species PCR Assay	Salmonella spp.	OXOID Ltd, Part of Thermo Fisher Scientific	AFNOR # UNI 03/07 - 11/13	Non-seasoned raw ground beef meat	25g
S073a	3M ™ Petrifilm™ <i>Salmonella</i> Express (SALX) System	Salmonella spp.	3M Company (3M Food Safety)	AOAC-PTM # 061301	Raw ground beef, raw ground pork, raw ground chicken, cooked chicken nuggets (325g), pasteurized liquid whole egg (100g), frozen uncooked shrimp, fresh bunched spinach, dry dog food (375g), stainless steel (sponge)	noted in "Validated Matrices"
	3M™ Petrifilm™ <i>Salmonella</i> Express System	Salmonella spp.	3M Food Safety	AOAC-OMA # 2014.01	Raw ground beef, raw ground chicken, pasteurized liquid whole egg (100g), raw ground pork, cooked chicken nuggets (325g), frozen uncooked shrimp, fresh bunched spinach, dry dog food (375g) and staipless steel	25g except where noted in "Validated Matrices"
S074	<i>mericon™ Salmonella</i> spp. Kit	Salmonella spp.	Qiagen GmbH	AOAC-PTM # 071204		25g
S075a	BAX® System Real-Time PCR Assay for Salmonella	Salmonella	Hygiena	AOAC-PTM # 081201	Raw ground beef (25g, 375g), chicken carcass rinse (30mL), cream cheese (25g), bagged lettuce (25g), raw comminuted chicken (325g), turkey (325g), dry pet food (375g), and stainless steel, dry pet food, milk chocolate, chocolate liquor, cocoa powder, shell egg, stainless steel,	25g except where noted in "Validated Matrices"
	BAX® System Real-Time PCR Assay for Salmonella	Salmonella spp.	DuPont Nutrition & Health Diagnostics	AOAC-OMA # 2013.02	wings, poultry rinse (30mL), whole powdered (dried) eggs, shell eggs (1000mL), fresh bagged lettuce, frozen peas, orange juice (pasteurized; 25mL), cream cheese, nonfat dry milk, ice cream, peanut butter, cocoa, white pepper, milk-based infant formula (25mL), dry pet food (375g), and on stainless steel, ceramic tile, and plastic	25g except where noted in "Validated Matrices"
S075c	BAX System Real-Time PCR Assay for Salmonella spp.	Salmonella spp.	DuPont Qualicon	AFNOR # QUA 18/08 - 03/15	Meat products (including raw beef), egg products, vegetables, seafood, and pet food	25g
	Pathatrix® Auto Salmonella spp Kit Linked to Selective Agar Detection	Salmonella spp.	Life Technologies Corporation, Part of Thermo Fisher Scientific	AFNOR # ABI 29/06 - 11/13		N/A
	Pathatrix® Auto Salmonella spp. Kit Linked to MicroSEQ® <u>Salmonella spp. Detection Kit</u> ANSR® Salmonella Confirmation Test	Salmonella spp. Salmonella spp.	Life Technologies Corporation, Part of Thermo Fisher Scientific Neogen Corporation	AFNOR # ABI 29/07 - 11/13 AOAC-OMA # 2013.14	Cooked meat products and raw beef	See Manufacturer's quidance N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S079	Actero™ <i>Salmonella</i> /STEC Enrichment Media	Salmonella spp./STEC (including O26, O45, O13, O111, O121, O145 & O157)	FoodChek System Inc.	AOAC-PTM # 041403	Raw ground beef (325 g), liquid whole egg (100 g), raw ground chicken (25 g), raw frozen scallops (25 g), sprouts (25 g), and Environmental surfaces (stainless steel (1 x 1 in), plastic, rubber (1 x 1 in), ceramic tiles(1 x 1 in), sealed	See "Validated
S082a	foodproof <i>Salmonella</i> spp. method Automated protocol using the foodproof RoboPrep Series	Salmonella spp.	BIOTECON Diagnostics Gn	MicroVal # 2011-LR40	Meat and Meat products (raw beef meat 375g), Milk and dairy products, Egg products, Feed samples	25g except where noted in "Validated Matrices"
S082b	foodproof Salmonella spp method Manual protocol	Salmonella spp.	BIOTECON Diagnostics Gn	MicroVal # 2011-LR42	Food, feed and primary production samples, raw beef meat (375g)	25g except where noted in "Validated Matrices"
S083	Veriflow <i>Salmonella</i> species	Salmonella spp.	Invisible Sentinel	AOAC-PTM # 011404	Beef hot dogs, raw ground beef (20% fat), chicken carcass rinse, pasteurized milk (2%), stainless steel, ceramic tile, sealed concrete, and plastic, peanut butter, ground black pepper, whey	N/A
S084	Hygiena Lateral Flow System for Salmonella AD (not sold in the US – international only)	Salmonella spp.	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 021001	Raw ground beef, raw ground chicken, sliced cooked turkey, chicken carcass rinses, liquid eggs	25g
S085b	GENE-UP® Salmonella	Salmonella spp.	bioMérieux, sa	AFNOR # BIO 12/38 - 06/16	All human food products, except raw milk products, by conducting validation assays on a broad range of food and environmental samples excluding environment of primary production	25g
S086a	BACGene <i>Salmonella</i> spp.	Salmonella spp.	Eurofins GeneScan GmbH	AFNOR # EGS 38/01 - 03/15	All human food products, feed products, pet foods (375g), production environmental samples, milk powders and infant formula without probiotics (50g-375g)	25g except where noted in "Validated Matrices"
S086b	BACGene Salmonella spp.	Salmonella spp.	Eurofins GeneScan GmbH	AOAC-PTM # 121501	Fresh raw ground beef (15% fat), frozen spinach, pasteurized whole liquid egg (25mL), frozen cod fillet, raw whole milk (25mL), dog påté (composed of beef meat and animal by-products, cereals, carrots and vegetable bi-products, 375g), dry dog pellets, infant formula milk powder supplemented with probiotics (Bifidus lactis) (375g), process water from scalding tank, and stainless steel environmental surface (1" x 1" area), cocoa butter (375g), cocoa liquor (375g), cocoa powder (375g), milk chocolate (375g), raw ground beef (375g), raw ground beef (375g), raw ground pork (250g), marinated raw chicken with brine (250g), ice cream (25g), dry pet food (375g), ceramic tiles (4"x4"), cotton swabs for swabbing 100cm2 of pork carcasses	noted in

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S087a	3M Molecular Detection Assay 2 (MDA2) - Salmonella	Salmonella	3M Food Safety	AOAC-PTM # 091501	325g), chicken carcass rinse (30mL), chicken carcass sponge, pasteurized liquid whole egg (100g), cooked breaded chicken (325g), instant non-fat dry milk (25 g), black pepper (25 g), cocoa powder (25 g), raw whole shrimp (25 g), raw bagged spinach (25 g), creamy peanut butter (25g & 375g), dry dog food (25g & 375g), pasteurized processed American cheese (25 g), spent sprout irrigation water (375mL), and environmental surfaces sealed concrete (sponge, 225 mL enrichment broth), stainless steel (10 mL enrichment broth), and sealed ceramic	See "Validated Matrices"
	3M Molecular Detection Assay 2 - <i>Salmonella</i> Method	Salmonella spp.	3M Food Safety	AOAC-OMA # 2016.01	325g), raw ground chicken (25g & 325g), chicken carcass rinse (30mL), chicken carcass sponge, pasteurized liquid whole egg (100g), cooked breaded chicken (325g), instant non-fat dry milk, black pepper, cocoa powder, raw whole shrimp, raw bagged spinach, creamy peanut butter (25g & 375g), dry dog food (25g & 375g), pasteurized processed American cheese, spent sprout irrigation water (375mL), and environmental surfaces (sealed concrete, stainless steel, and sealed	
	Salmonella ELISA Test OPTIMA Reveal 2.0 Group D1 Salmonella (including Salmonella Enteritidis)	Salmonella spp. Salmonella Enteritidis subsp. enterica serovar	Eurofins GeneScan GmbH Neogen Corporation	AOAC-PTM # 960901 AOAC-PTM # 041602	Contact Manufacturer Raw shell eggs (20 shells), poultry feed (25g), chicken carcass rinse (30ml)	25g 25g
S091	, Xpress™ S	Salmonella spp.	Crystal Diagnostics Corporation	AOAC-PTM # 051602		N/A
S092	Salmonella Velox	Salmonella spp.	DNA Diagnostic A/S	NordVal # 046	raw meat (25-125g), chicken, fish and seafood, minced meat (25-100g)	25g except where noted in "Validated Matrices"
	SALMA™ One Day	Salmonella spp.	bioMérieux	AFNOR # BIO 12/41 - 03/17	All human food products (by performing validation assays on a broad range of foods), feed products and production environmental samples and surface areas (excluding environment from primary production stage)	25g
S094	3M™ Molecular Detection Assay 2 - <i>Salmonella</i>	Salmonella spp.	3M Health Care	AFNOR # 3M 01/16 - 11/16	All human food products (by concluding validated assays on a broad range of foods) and production environmental samples (excluding primary production samples)	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S096	Thermo Fisher Salmonella species, Typhimurium and Enteritidis Multiplex PCR Kit	Salmonella species, Salmonella ser. Typhimurium and Salmonella ser. Enteritidis	Oxoid Ltd. Part of Thermo Fisher Scientific	AOAC-PTM # 081701	(25 g) Raw chicken thighs with skin, raw chicken wings with skin, chicken nuggets, raw pork sausage, stainless steel enviromental surface (4in x 4in sponge), raw ground turkey (375g), chicken carcass rinse, shell enge	
S097	GDS Salmonella Tq detection Kit for the detection of Salmonella spp.	Salmonella spp.	Merck MiliporeSigna	MicroVal # 2015LR50	Raw beef meats, delicatessen and heat treated meat products (with 25 g sampling), Dairy products (with 25 g sampling), Fruits and vegetables (with 25 g sampling), Environmental samples (with 25 g or surface sampling), Raw beef meats (with 375 g sampling), raw	See "Validated Matrices"
S098	iQ-Check <i>Salmonella</i> II Real-Time PCR test kit	Salmonella spp.	Bio-Rad (Hercules, CA, US/	AOAC-OMA # 2017.06	375 g test portions of raw ground chicken, ready-to-eat (RTE) deli ham, dry dog food, milk chocolate, raw milk cheese, to chicken carcass rinse (30 mL), to 25 g test portions of whole eggs, raw ground beef, raw ground chicken, cantaloupe, peanut butter, raw chicken breast, raw pork, fresh spinach, dry dog food, wet cat food, and to environmental samples from stainless steel, ceramic, plastic, and sealed	See "Validated Matrices"
S099	PDX-STEC	Shiga toxin-producing E. coli (STEC) Salmonella spp.	Paradigm Diagnostics, Inc.	AOAC-PTM # 101705	Raw beef trim 325g	See "Validated Matrices"
S100	VereBeef™ Detection Kit	(8-20 hr) Escherichia coli O157:H7, STEC virulence factors (stx1A or stx2A and eae) (10- 20 hr) Escherichia coli O26, O45, O103, O111, O121, O145, Salmonella, spp	Veredus Laboratories Pte, Ltd.	AOAC-PTM # 011801	Raw beef trim 25g, 325g, 375g	See "Validated Matrices"
S102	Assurance VIP® Gold for Salmonella	Salmonella spp.	BioControl Systems, Inc.	AOAC-PTM # 031801	Chicken carcass rinsate, ready-to-eat poultry, roast beef.	N/A
	PolySkope 1.0 Multiplex Detection Assay	STECs, E. coli 0157:H7 & Non-0157 STEC Big 6 (026,045,0103,0111,0 121,0145), Listeria monocytogenes, Salmonella species	PolySkope Labs	AOAC-PTM # 041801	(25g) Fresh raw ground beef (73%	See "Validated Matrices"
S104	EnviroPRO Multiplex Salmonella and Listeria	Listeria species, Salmonella species	Invisible Sentinel Inc.	AOAC-PTM # 061801	Stainless steel environmental surfaces (4x4" squares)	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S105	SureFast Salmonella ONE	Salmonella species	Congen Biotechnologie GmbH	AOAC-PTM # 081803	(25g) Raw ground beef, frozen poultry meat, raw milk, fresh spinach, pasteurized liquid whole egg, pet food pellets, salami, pork minced meat, bacon, fresh ground chicken, fresh chicken carcass, frozen marinated chicken fillets, semi-skim milk powder, raw goat milk cheese, chocolate ice cream, salad with mayonnaise, paella, cream based pastry, dehydrated poultry proteins, wheat based flour, pet food	See "Validated Matrices"
S106	Solus Salmonella ELISA	Salmonella spp.	Solus Scientific (part of PerkinElmer Inc.)	AFNOR # SOL 37/01 - 06/13	All human and food products (by performing validation assays on a broad range of foods), feed products and production environmental samples(excluding primary production environmental samples)	N/A
S107	MALDI Biotyper® complete solution for the confirmation of Salmonella spp.	Salmonella spp.	Bruker Daltonik GmbH	MicroVal # 2017LR73	Only pure cultures/isolates	N/A
S108		Salmonella spp.	CONGEN Biotechnologie GMBH	MicroVal # 2014LR43	A broad range of foods (poultry meat, meat products, dairy products, vegetables, (excluding sprouts) egg products, and feed)	N/A
S109	Bruker MALDI Biotyper Method	Salmonella spp., Campylobacter spp.	Bruker Daltonik GmbH, Bremen, Germany	AOAC-OMA # 2017.09		N/A
S110	Solus One Salmonella	Salmonella species (Salmonella enterica and Salmonella bongori, and Salmonella subspecies)	Solus Scientific	AOAC-PTM # 101801	Raw beef trim (>30% fat content, 375 g), pasteurized liquid egg (100 g), raw salmon (fillet, 25 g), cheddar cheese (shredded, 25 g), Romaine lettuce (bagged, 25 g), non-fat dry milk powder (NFDM, 375 g), stainless steel (18 gauge: 304 food grade with a brushed finish) and plastic (polystyrene) environmental surface,cocoa powder (375g), cocoa liquor (375g), milk chocolate bar (375g), honey mustard seasoning and flavored ranch seasoning, cinnanom powder, paprika	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S111	GENE-UP® Salmonella 2 (SLM 2)	Salmonella spp.	bioMérieux, s.a.	AOAC-PTM # 121802	Liquid whole egg, Cooked ham, Raw ground beef, Raw chicken, Lettuce, Chocolate, Dry pet food (25 g, 375 g), Stainless steel (sponge, 4 x 4 inches), Fresh raw ground beef 20% fat (25 g, 375 g), Fresh raw chicken breast, Fresh raw fish, Creamy peanut butter (25 g, 375 g), Vanilla ice cream, Chicken carcass rinse (30 mL), Raw ground chicken, Raw beef trim, Raw ground chicken, Raw beef trim, Raw ground chicken, Raw beef trim, Raw ground pork (375 g), Raw ground bison (375 g), Pasteurized liquid egg (100 g), Powdered egg (100 g), Whey protein powder (375 g), Dark chocolate (375 g), Garlic powder (375 g), Bulk bagged romaine lettuce (375 g), milk chocolate (NFDM with 0.1% brilliant groom 25c), wilk chocolate (NFDM)	25g except where noted in "Validated Matrices"
	Clear Safety Salmonella	Salmonella enterica	Clear Labs, Inc.	AOAC-PTM # 111802	areen 25g). milk chocolate (NFDM). Raw ground chicken (375 g), ready-to- eat deli turkey breast (375 g), chicken carcass rinse (30 mL) dry pet food (375 g), staipless steel (sponge)	See "Validated Matrices"
S113	QFast Salmonella	<i>Salmonella</i> spp.	İMICROQ, S.L.	AENOR # B59/000001	Veterinary samples originating from the poultry industry. Samples of animal food. Environmental samples originating from primary production (poultry industry). General Food: fruits and vegetables, dairy products and various products, including spices,	25 g
S114	QFast <i>Salmonella</i> Easy	Salmonella spp.	IMICROQ, S.L.	AENOR # B59/000002	Animal feed samples, Veterinary samples (faeces, shoe covers, necks), Environmental samples originating from primary production (poultry industry), General Food: fruits and vegetables, dairy products and various products, including spices, mayonnaise and eggs;	
S115	Solus One Salmonella	Salmonella spp.	Solus Scientific (part of PerkinElmer Inc.)	AFNOR # SOL 37/04 - 12/18	Ready-to-eat and ready-to-reheat (excluding smoked products), heat processed milk and dairy products, and egg products	N/A
S116	Thermo Scientific™ RapidFinder™ <i>Salmonella</i> species, Typhimurium and Enteritidis Multiplex PCR Kit	Salmonella spp., S. Typhimurium and S. Enteritidis	Oxoid Ltd, Part of Thermo Fisher Scientific	AFNOR # UNI 03/12 - 01/18	Raw pork and raw poultry meat, ready- to-eat and ready-to-reheat pork and poultrymeats and production enviromental samples (excluding enviroment from primary production)	N/A
S117	BACSpec Salmonella 2	Salmonella ssp.	Eurofins GeneScan Technologies GmbH	AOAC-PTM # 111903	Mayonnaise-based vegetable salad, ground beef (fat content approx 20%), raw milk (fat content approx 4%), fresh spinach, pasteurized liquid egg, dry pet food, stainless steel (304L) surface (1"x1"), sealed ceramic tile surface	25g except where noted in "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S118	Simultaneous Muliplex Real Time PCR (SIMUL-qPCR) <i>Salmonella</i> Assay	Salmonella ssp.	Applied Food Diagnostics	AOAC-PTM # 042001	Raw beef trim (375g, 80% lean), raw ground beef (375g, 80% lean), raw ground poultry (375g), ready-to-eat cooked poultry (375g), pasteurized liquid eggs (100g), frankfurters/sausages (25g), poultry carcass rinses, dry pet food (375g), peanut butter (25g), stainless steel	See "Validated Matrices"
S119	Simultaneous Muliplex Real Time PCR (SIMUL-qPCR) <i>Salmonella</i> Assay	Salmonella ssp.	Applied Food Diagnostics	AOAC-PTM # 042002	Stainless steel (1"x1"), plastic (1"x1"), rubber (1"x1"), ceramic tile (1"x1"), and sealed concrete (1"x1")	See "Validated Matrices"
S120	PhageDx Salmonella Assay	Salmonella ssp.	Laboratory Corporation of America	AOAC-PTM # 121904	Raw ground turkey (25g), powdered infant formula (milk based) (100g)	See "Validated Matrices"
S121	Salmonella species DNA Test Kit	Salmonella ssp.	BioChek (UK) Ltd.	AFNOR # BCK 40/01 - 07/19	Ready to eat and ready to re-heat foods, meat products, ingredients and specific foods, feed products, production environmental samples and primary production samples	N/A
S122	GENE-UP® Salmonella (SLM) Test Method	Salmonella ssp.	bioMérieux, Inc.	AOAC-OMA # 2020.02	25 g test portions of fresh raw ground chicken, fresh raw chicken breast, fresh raw ground beef (80% lean), cooked ham, liquid whole egg, fresh raw fish, lettuce, creamy peanut butter, vanilla ice cream, dry pet food and milk chocolate; for 30 mL test portions of chicken carcass rinse; for 100 g test portions of pasteurized liquid eggs and powdered egg; for 375 g test portions of fresh raw ground beef (80% lean), raw beef trim, raw ground pork, raw ground bison, whey protein powder, dry pet food, creamy peanut butter, garlic powder, bulk bagged Romaine lettuce, dark chocolate and milk chocolate; for stainless steel environmental sponges	
S123	Solus One Salmonella	Salmonella ssp.	Solus Scientific	AOAC-OMA # 2020.03	Raw beef trim (375 g), instant nonfat dry milk powder (NFDM; 375 g), pasteurized liquid egg (100 g), raw salmon (25 g), cheddar cheese (25 g), romaine lettuce (25 g), honey mustard onion season (375 g), flavored ranch seasoning (375 g), cinnamon powder (25 g), paprika powder (25 g), and whole black peppercorns (25 g) and two environmental surfaces (stainless steel: sponges and polystyrene: swabs).	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
S124	One Broth One Plate for Salmonella (OBOPS)	Salmonella ssp.	Neogen Corporation	MicroVal # 2019LR88	Environmental samples, Feed samples, A broad range of foods	See "Validated Matrices"
S125	One Broth One Plate Salmonella (OBOP Salmonella)	Salmonella enterica, bongori	Neogen Corporation	AOAC-PTM # 102002	Raw groud turkey (25 g) chicken carcass rinse (whole carcass), pasteurized liquid egg (100 g), queso fresco (25 g), smoked salmon (25 g), cantalope (25 g), dry pet food (25 g and 375 g), chocolate (25 g and 325 g), black pepper (25 g), chili powder (25 g), sponge samples from stainless steel surfaces (4in x 4in)	See "Validated Matrices"
S126	EnviroX-F	Salmonella ssp.	PathogenDx	AOAC-PTM # 092001	WorldBio PUR-BlueTM Swabs in 5 mL of Hi Cap broth - Environmental Surface Swabs (4in x 4in): Stainless Steel, Plastic (polystyrene), Rubber, and Sealed Concrete	

FSIS is making available a list of test kits that have been validated for detection of relevant foodborne pathogens (i.e., Salmonella, Campylobacter, Listeria spp. including L. monocytogenes, E. coli O157:H7 and non-O157 STEC). The list is intended to be informational and is not an endorsement or approval of any specific test kit, regardless of its inclusion in the list.

FSIS does not specifically endorse any of the mentioned test kits or products and acknowledges that equivalent test kits or products may be available for laboratory use. Likewise, FSIS does not require the use of any specific test kit, including those incorporated into FSIS's Microbiology Laboratory Guidebook methods. Instead, establishments and laboratories should choose test kits that are:

1) Validated for testing relevant foods by a:

a) Recognized independent body (i.e., AOAC, AFNOR, MicroVal, NordVal),

b) U.S. regulatory body (i.e., FSIS MLG or FDA BAM), or

c) International Organization for Standardization (ISO) process

2) In addition, the validated method should be:

a) Fit for the intended purpose and application (e.g., validated for the appropriate matrix and sample size to detect the appropriate foodborne pathogen), and

b) Performed per the conditions of the validated protocol by a laboratory that assures the quality of the analytical results.

The table below contains a list of foodborne pathogen test kits that are validated by recognized independent organizations (i.e., AOAC, AFNOR, MicroVal, NordVal) and therefore meet criterion 1a above. However, the test kits in this list are not necessarily equivalent or appropriate for all testing applications.

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
C002	BAX® System Real-Time PCR Assay for <i>Campylobacter jejuni, coli,</i> and <i>lari</i>	Campylobacter jejuni; Campylobacter coli; Campylobacter lari	Qualicon Diagnostics LLC, a Hygiena Company	NordVal # 039	Faeces on cloacae swabs (levels above 100 cfu/g)	N/A
C003	BAX® System Real-Time PCR Assay for <i>Campylobacter jejuni, coli,</i> and <i>lari</i>	Campylobacter jejuni; Campylobacter coli; Campylobacter lari	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 040702	Ready-to-eat turkey product & chicken carcass rinses	25g, 30mL
C004a	CampyFood Agar (CFA)	Campylobacter spp.	bioMérieux	AFNOR # BIO 12/30 - 05/10	Meat products and production environment samples	25g
C004b	CampyFood Agar (CFA)	Campylobacter spp.	bioMérieux, sa	AOAC-PTM # 071201	Fresh raw pork, raw chicken breast, processed chicken nuggets, chicken carcass rinsate, turkey carcass sampled with sponge	25g
C004c	CampyFood® agar method	Campylobacter spp.	bioMérieux	MicroVal # 2009LR28	Poultry products, meat products, environmental samples	25g
C005	<i>Campylobacter</i> real-time PCR	Campylobacter spp.	Eurofins Genescan	NordVal # 017	Chicken raw meat, faeces on cloacae swabs, disposal shoe covers with chicken feces	N/A
C007	iQ-Check™ <i>Campylobacter</i> Real-Time PCR	Campylobacter jejuni; Campylobacter coli; Campylobacter lari	Bio-Rad Laboratories	AOAC-PTM # 031209	Chicken carcass rinse, turkey carcass sponge, raw ground chicken breast	25g, 30mL

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
C008	Brilliance™ CampyCount Agar	Campylobacter spp.	Thermo Fisher Scientific	MicroVal # 2008LR12	Poultry products	N/A
C009	Singlepath® Campylobacter	Campylobacter jejuni; Campylobacter coli	Merck KGaA	AOAC-PTM # 120401	Raw ground chicken, raw ground turkey, pasteurized milk	25g
C010	Veriflow™ <i>Campylobacter</i>	Campylobacter spp.	Invisible Sentinel, Inc.	AOAC-PTM # 101201	Chicken carcass rinse	N/A
C011a	VIDAS [®] Campylobacter (VIDAS CAM)	Campylobacter spp.	bioMérieux	AFNOR # BIO 12/29 - 05/10	Meat products and production environment samples	25g
C011b	VIDAS [®] Campylobacter (CAM)	Campylobacter spp.	bioMérieux, sa	AOAC-PTM # 051201	Fresh raw pork, raw chicken breast, processed chicken nuggets, chicken carcass rinsate, turkey carcass sampled with sponge	25g
C012	RAPID'Campylobacter	Campylobacter spp.	Bio-Rad	AFNOR # BRD 07/25 - 01/14	Meat and meat products Poultry and poultry products Environmental samples	N/A
C013	ANSR for Campylobacter	Campylobacter jejuni; Campylobacter coli; Campylobacter lari	Neogen Corporation	AOAC-PTM # 071601	Chicken carcass rinse and turkey carcass sponge	N/A
C015	Tadpole Campylobacter jejuni Real-Time PCR Identification Kit	Campylobacter jejuni	Suzhou Tadpole Biotechnology Co., Ltd.	AOAC-PTM # 081804	Only pure cultures/isolates	N/A
C016	MALDI Biotyper® complete solution for the confirmation of Campylobacter spp.	Campylobacter spp.	Bruker Daltonik GmbH	MicroVal # 2017LR74	Only pure cultures/isolates	N/A
C017	CASA M	Campylobacter spp.	bioMérieux	MicroVal # 2010LR38	Meat products, poultry products & environmental samples	N/A
C018	Bruker MALDI Biotyper Method	Salmonella spp., Campylobacter spp.	Bruker Daltonik GmbH, Bremen, Germany	AOAC-OMA # 2017.09	Only pure cultures/isolates	N/A
C019	3M Molecular Detection Assay 2	Campylobacter jejuni, C. lari and C. coli	3M Food Safety	AOAC-PTM # 111803	Chicken carcass rinse samples, poultry parts rinse samples, raw ground chicken (325g), turkey carcass sponge samples and ready-to-eat, breaded chicken nuggets	See "Validated Matrices"
C020	Tempo® Cam	Campylobacter spp.	bioMérieux, sa	AFNOR # BIO 12/43 - 04/20	Raw poultry, ready-to-eat poultry products	N/A

FSIS is making available a list of test kits that have been validated for detection of relevant foodborne pathogens (i.e., Salmonella, Campylobacter, Listeria spp. including L. monocytogenes, E. coli O157:H7 and non-O157 STEC). The list is intended to be informational and is not an endorsement or approval of any specific test kit, regardless of its inclusion in the list.

FSIS does not specifically endorse any of the mentioned test kits or products and acknowledges that equivalent test kits or products may be available for laboratory use. Likewise, FSIS does not require the use of any specific test kit, including those incorporated into FSIS's Microbiology Laboratory Guidebook methods. Instead, establishments and laboratories should choose test kits that are:

1) Validated for testing relevant foods by a:

a) Recognized independent body (i.e., AOAC, AFNOR, MicroVal, NordVal),

b) U.S. regulatory body (i.e., FSIS MLG or FDA BAM), or

c) International Organization for Standardization (ISO) process

2) In addition, the validated method should be:

a) Fit for the intended purpose and application (e.g., validated for the appropriate matrix and sample size to detect the appropriate foodborne pathogen), and

b) Performed per the conditions of the validated protocol by a laboratory that assures the quality of the analytical results.

The table below contains a list of foodborne pathogen test kits that are validated by recognized independent organizations (i.e., AOAC, AFNOR, MicroVal, NordVal) and therefore meet criterion 1a above. However, the test kits in this list are not necessarily equivalent or appropriate for all testing applications.

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L001	3M™ Petrifilm™ Environmental <i>Listeria</i> Plate	Listeria monocytogenes ; Listeria innocua ; Listeria welshimeri	-	AOAC-PTM # 030601	(Environmental swabs or sponges enriched in 5mL of buffered peptone water) stainless steel, ceramic tile, sealed concrete	N/A
L006	ACTERO™ <i>Listeria</i> Enrichment Media	<i>Listeria</i> spp.	FoodChek Systems, Inc	AOAC-PTM # 111201	Frankfurters, smoked turkey breast (125 g), cured ham (125 g), raw frozen salmon, cold smoked salmon, frozen cooked shrimp, cooked shrimp, ice cream, pasteurized milk, pasteurized 2% milk, soft Mexican-style cheese, bagged spinach, soft fresh ricotta cheese, liquid whole eggs, ceramic tile, rubber, sealed concrete, stainless steel, plastic	25g except where noted in "Validated Matrices"
L010	AL Detection	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	BIO-RAD	AFNOR # BRD 07/16 -01/09	All human food products and environmental samples	25g
L011	AL Enumeration		BIO-RAD	AFNOR # BRD 07/17 -01/09	All human food products and environmental samples	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
	ALOA® Count	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	bioMérieux	AFNOR # AES 10/05 - 09/06	All foodstuffs for human consumption and environmental samples	N/A
L013a	ALOA® One Day	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	bioMérieux	AFNOR # AES 10/03 – 09/00	All foodstuffs for human consumption and environmental samples	25g
L014a	ANSR™ for <i>Listeria</i>	<i>Listeria</i> spp. (<i>L. grayi</i> variable)	Neogen Corporation	AOAC-PTM # 101202	Pasteurized 2% milk, queso fresco, ice cream, smoked salmon, lettuce, cantaloupe, guacamole, pasteurized liquid egg, hot dog (125g), fermented sausage, deli turkey, stainless steel, plastic, ceramic tile, sealed concrete, rubber	25g except where noted in "Validated Matrices"
L014b	ANSR for <i>Listeria</i>	Listeria monocytogenes and Listeria spp.	NEOGEN Europe Ltd.	AFNOR # NEO 35/03 - 01/16	All human food products and production environmental samples	N/A
L015a	Assurance GDS™ for <i>Listeria</i> <i>monocytogenes</i>	Listeria monocytogenes	BioControl Systems, Inc.	AOAC-PTM # 070702	Liquid pasteurized milk, Mexican soft cheese, frankfurter, deli turkey, raw fish, raw green beans, environmental surfaces (stainless steel, rubber, concrete, plastic)	25g
L015b	Assurance GDS® Listeria monocytogenes Tq	Listeria monocytogenes	BioControl Systems Inc.	MicroVal # 2014LR32	All food products and environmental samples	25g
L016a	Assurance GDS™ for <i>Listeria</i> species	Listeria species including L. monocytogenes , L. innocua , L. seeligeri , L. welshimeri , L. ivanovii and L. grayi	BioControl Systems, Inc.	AOAC-PTM # 070701	Liquid pasteurized milk, Mexican soft cheese, frankfurter, deli turkey, raw fish, raw green beans, environmental surfaces (stainless steel, rubber, concrete, plactic)	25g
L016b	Assurance GDS® <i>Listeria</i> spp. <i>Tq</i>	<i>Listeria</i> spp.	BioControl Systems Inc.	MicroVal # 2010LR31	All food products and environmental samples	25g
	Assurance® <i>Listeria</i> EIA	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	BioControl Systems, Inc.	AOAC-OMA # 996.14	Dairy foods, red meats, pork, poultry and poultry products, seafood, fruits, vegetables, nutmeats, pasta, chocolate, eggs, bone meal, and from environmental surfaces	25g
L017b	TRANSIA AG <i>Listeria</i>	L. monocytogenes , L. innocua , L. seeligeri , L. welshimeri , L. ivanovii , L. grayi	BioControl Systems, Inc.	AOAC-PTM # 060802	Liquid pasteurized milk, Mexican soft cheese, raw beef trim, ready to eat turkey, raw green beans, raw fish, environmental surfaces (stainless steel, rubber, plactic)	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L018	BAX® system <i>L. monocytogenes</i>	Listeria monocytogenes	DuPont Qualicon (DuPont Nutrition & Health Diagnostics)	AOAC-OMA # 2003.12	Dairy products, fruits and vegetables (except radishes), seafoods, raw and processed meats, and poultry	25g
L019a	BAX® System PCR Assay for Genus <i>Listeria</i> 24E	<i>Listeria</i> spp.	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 050903	Bagged spinach, processed cheese, frankfurters, cooked shrimp, environmental surfaces (stainless steel)	25g
L019b	BAX® System PCR Assay for Genus Listeria 24E	<i>Listeria</i> spp. excluding <i>L. grayi</i>	Qualicon Diagnostics LLC	AFNOR # QUA 18/06 - 07/08	All human food products and environmental samples	25g
L020a	BAX® System PCR Assay for <i>Listeria</i> monocytogenes 24E	Listeria monocytogenes	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 080901	Bagged spinach, processed cheese, frankfurters, cooked shrimp, environmental surfaces (stainless steel)	25g
L020b	BAX® System PCR Assay for <i>Listeria</i> monocytogenes 24E	Listeria monocytogenes	Qualicon Diagnostics LLC	AFNOR # QUA 18/05 - 07/08		25g
L021	BAX® System PCR Assay for <i>Listeria</i> <i>monocytogenes</i>	Listeria monocytogenes	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 070202		25g
L022	BAX® System PCR Assay for Screening Genus <i>Listeria</i>	Listeria spp. including L. monocytogenes , L. innocua , L. ivanovii , L. seeligeri , L. welshimeri	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 030502	Processed cheese, frankfurters, smoked salmon, spinach, environmental surfaces (plastic ceramic, tile, rubber, painted wood surfaces, unpainted wood, sealed concrete, cast iron, air	25g
	BBL™ CHROMagar™ <i>Listeria</i>	Listeria monocytogenes , Listeria ivanovii	Becton Dickinson and Company	AOAC-PTM # 060501	Raw ground beef, smoked salmon. lettuce. brie cheese	N/A
	ChromID Lmono Agar (LMO-F) for <i>Listeria</i> monocytogenes enumeration	Listeria monocytogenes	bioMérieux	MicroVal # 2010LR35	All food categories & environmental samples	N/A
L029a	Compass® <i>Listeria</i> Agar (Detection)	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	SOLABIA SAS	AFNOR # BKR 23/02-11/02	All human food products and production environment samples	25g
L029b	Compass® <i>Listeria</i> Agar (Enumeration)	Listeria monocytogenes	SOLABIA SAS	AFNOR # BKR 23/05-12/07	All human food products and production environment samples	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L030	Hygiena Lateral Flow System <i>Listeria</i> species	<i>Listeria</i> spp.		AOAC-PTM # 080501	Ice cream, soft cheese, milk, deli turkey, pepperoni, hot dogs, roast beef, cooked shrimp, smoked fish, potato salad, environmental surfaces (rubber, painted concrete, ataplace steel)	25g
L032a	foodproof® <i>Listeria monocytogenes</i> Detection Kit in combination with the foodproof® ShortPrep II Kit	Listeria monocytogenes	BIOTECON Diagnostics GmbH	AOAC-PTM # 070401	Dried whole eggs, dry whole milk, vanilla ice cream, Harzer cheese, sausage, raw ground chicken, raw ground pork, ham, gravlax, pollack fillet, melon cubes, white cabbage, bean sprouts, paprika emulsion dye, parsley flakes, dry pet food, peanut butter, milk chocolate, pizza, spaghetti	25g
L032b	foodproof® <i>Listeria monocytogenes</i> Detection Kit, Hybridization Probes and foodproof® <i>Listeria monocytogenes</i> Detection Kit, 5' Nuclease in combination with foodproof® ShortPrep II Kit	Listeria monocytogenes	BIOTECON Diagnostics GmbH	NordVal # 025	Foods and environmental samples	25g
L033	GeneDisc® Plate <i>Listeria</i> DUO Detection Kit	Listeria spp. & Listeria monocytogenes	Pall GeneDisc Technologies	AOAC-PTM # 031206	Deli roast beef, hot dogs, deli turkey, raw shrimp, cold smoked salmon, romaine lettuce, pasteurized whole milk, vanilla ice cream, Brie cheese, liquid eggs, environmental surfaces (stainless steel, sealed	N/A
L034a	GeneDisc® <i>Listeria monocytogenes</i>	Listeria monocytogenes	Pall GeneDisc Technologies	AFNOR # GEN 25/08 - 07/10	All human food products and production environment samples	25g
L034b	GeneDisc® Plate <i>Listeria monocytogenes</i> Detection Kit	Listeria monocytogenes	Pall GeneDisc Technologies	AOAC-PTM # 031204	Deli roast beef, hot dogs, deli turkey, raw shrimp, cold smoked salmon, romaine lettuce, pasteurized whole milk, vanilla ice cream, Brie cheese, liquid eggs, environmental surfaces (stainless steel, sealed	N/A
L035a	GeneDisc® <i>Listeria</i> spp.	<i>Listeria</i> spp.	Pall GeneDisc Technologies	AFNOR # GEN 25/07 - 07/10	All human food products and production environment samples	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L035b	GeneDisc® Plate <i>Listeria</i> spp. Detection Kit	<i>Listeria</i> spp.	Pall GeneDisc Technologies	AOAC-PTM # 031205	Deli roast beef, hot dogs, deli turkey, raw shrimp, cold smoked salmon, romaine lettuce, pasteurized whole milk, vanilla ice cream, Brie cheese, liquid eggs, environmental surfaces (stainless steel, sealed	N/A
L036	GeneDisc® Plate <i>Listeria</i> Identification Kit	L. monocytogenes , L. innocua , L. ivanovii , L. seeligeri , L. welshimeri	Pall GeneDisc Technologies	AOAC-PTM # 031207	Pure colonies from OXA, MOX, OAA, PALCAM, Rapid' <i>L.mono</i> agar & Nutrient	N/A
L037	GeneQuence™ <i>Listeria</i> Microwell Test	Listeria spp.	Neogen Corporation	AOAC-PTM # 010403	Parmesan cheese, brie cheese, pasteurized milk, ice cream, cottage cheese, mayonnaise, ground beef, deli turkey, hot dogs, ground pork, deli ham, lettuce, mixed vegetables, alfalfa sprouts, raw shrimp, pasteurized crab meat, smoked salmon, environmental surfaces (stainless steel, ceramic, cast iron, plastic, concrete, painted	25g
L038	GENE-TRAK Listeria	<i>Listeria</i> spp.	Neogen Corporation	AOAC-OMA # 993.09	Dairy products, meats, and seafoods	25g
L040	IEH <i>Listeria</i> spp. & <i>Listeria monocytogenes</i> Test System	Listeria spp. & Listeria monocytogenes	IEH Laboratories & Consulting Group	AOAC-PTM # 021201	Raw beef trim, ready-to-eat turkey, environmental surfaces (stainless steel, plastic)	25-375g
L041a	iQ-Check™ <i>Listeria monocytogenes</i> II	Listeria monocytogenes	BIO-RAD	AFNOR # BRD 07/10 - 04/05	All human foodstuffs and environmental samples	25g
	Detection Kit	Listeria monocytogenes	Bio-Rad Laboratories	AOAC-PTM # 010802	Smoked salmon, cottage cheese, hot dogs, deli turkey, live pate, raw fermented sausage, deli ham,	25g
L041c	iQ-Check™ <i>Listeria monocytogenes</i> II	Listeria monocytogenes	Bio-Rad Laboratories	NordVal # 037	Foods and environmental samples	25g
L042a	iQ-Check™ <i>Listeria</i> species	<i>Listeria</i> spp.	BIO-RAD	AFNOR # BRD 07/13 - 05/07	All human foodstuffs and environmental samples	25g
L042b	iQ-Check™ <i>Listeria</i> spp. PCR Detection Kit	<i>Listeria</i> spp.	Bio-Rad Laboratories	AOAC-PTM # 090701	Liver pate, hot dogs, raw fermented sausage, sliced deli turkey, sliced deli ham (25g), natural cheese (125g), stainless steel (4 x 4 in, sponge) polystyrene plastic (1 x1 in swab), sealed concrete	25g except where noted in "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L044a	<i>Listeria</i> Precis™ (Detection)	Listeria monocytogenes	Fisher Scientific	AFNOR # UNI 03/04 -04/05	All human food products and environmental samples	25g
L044b	<i>Listeria</i> Precis™ (Enumeration)	Listeria monocytogenes	OXOID Ltd, Part of Thermo Fisher Scientific	AFNOR # UNI 03/05 -09/06	All human food products and environmental samples	N/A
L045	<i>Listeria</i> -Tek ELISA	Listeria monocytogenes	Organon Teknika Corporation	AOAC-OMA # 994.03	Meat, meat products, fish, dairy products	25g
L046	LUMIprobe 24 Listeria monocytogenes	Listeria monocytogenes	EUROPROBE SA	AFNOR # EUR 15/03 - 12/05	All human food products and environmental samples	25g
L047	Microgen™ Listeria-ID	Listeria spp.	Microgen Bioproducts Ltd	AOAC-PTM # 060402	Pure culture	N/A
L048	MICRO-ID Listeria	Listeria spp.	Organon Teknika Corporation	AOAC-OMA # 992.18	Foods and environmental samples	N/A
L049a	MicroSEQ Listeria monocytogenes	Listeria monocytogenes	Life Technologies Corporation, part of Thermo Fisher Scientific	AFNOR # ABI 29/05 - 12/11	meat products, dairy products, fishery products, vegetables and environmental samples	25g
L049b	MicroSEQ® <i>Listeria monocytogenes</i> Detection Kit	Listeria monocytogenes	Applied Biosystems	AOAC-PTM # 011002	Pasteurized whole milk, dry infant formula, ice cream, roast beef, cured bacon, lox (cold-smoked salmon), lettuce, salad dressing and mayonnaise	25g
L050a	MicroSEQ <i>Listeria</i> spp.	<i>Listeria</i> spp.	Life Technologies Corporation, part of Thermo Fisher Scientific	AFNOR # ABI 29/04 - 12/11	meat products, dairy products, fishery products, vegetables, and environmental samples	N/A
L050b	MicroSEQ® <i>Listeria</i> spp. Detection Kit	<i>Listeria</i> spp.	Applied Biosystems	AOAC-PTM # 021108	Pasteurized whole cows milk, dry infant formula, hot dogs, roast beef, lox (smoked salmon), environmental surfaces (stainless steel, plastic cutting board, ceramic tile, rubber sheets, concrete	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L051b	3M™ Molecular Detection Assay (MDA) <i>Listeria</i> Method	<i>Listeria</i> spp.	3M Food Safety	AOAC-OMA # 2014.06	Beef hot dogs (25g), deli turkey (25g), cold smoked salmon (25g), full-fat cottage cheese (25g), bagged raw spinach (25g), whole cantaloupe melone, sealed concrete (sponge in 100mL and sponge in 225mL enrichment volume), stainless steel (sponge in 225mL enrichment volume), and plastic (swab in 10ml enrichment volume) enriched in pre warmed Demi Fraser (DF) broth	See "Validated Matrices"
L053	PATHATRIX Pooling System for <i>Listeria</i> species	<i>Listeria</i> spp.	LifeTechnologies part of Thermo Fisher Scientific	AOAC-PTM # 090201B	Raw ground beef, cooked sliced ham, milk powder, orange juice, soft cheese, single cream, ground black pepper, chocolate, cooked chicken, lasagna ready meal, frozen pawns, soft cheese,	25g
L054	PDX- LIB	Listeria spp. including L. monocytogenes, L. innocua, L. ivanovii, L. welshimeri	Paradigm Diagnostics, Inc.	AOAC-PTM # 040501	Environmental surfaces (ceramic tile, stainless steel, plastic, & sealed concrete)	N/A
L055a	RAPID'L. mono (Detection)	Listeria monocytogenes and Listeria spp.	BIO-RAD	AFNOR # BRD 07/04 - 09/98	All human food products and environmental samples	25g
L055b	RAPID'L. mono (Enumeration)	Listeria monocytogenes	BIO-RAD	AFNOR # BRD 07/05 - 09/01	All human food products and environmental samples	N/A
L055c	RAPID'L. mono	Listeria monocytogenes	Bio-Rad Laboratories	AOAC-PTM # 030406	Brie cheese, surimi, mixed salad, & deli turkey	N/A
L055d	RAPID'L. mono	Listeria monocytogenes	Bio-Rad Laboratories	NordVal # 022	Foods and environmental samples	25g
L056	RapidChek® <i>Listeria</i>	<i>Listeria</i> spp.	Romer Labs Technology, Inc.	AOAC-PTM # 020401	Ice cream, soft cheese, pasteurized whole milk, deli turkey, pepperoni, hot dogs, roast beef, cooked shrimp, smoked fish, potato salad, environmental surfaces (rubber, painted concrete,	25g
L057a	RAPID' <i>Listeria</i> spp.	Listeria spp.	Bio-Rad Laboratories	AFNOR # BRD 07/12 - 12/06	All human food products and environmental samples	25g
L057b	RAPID' <i>Listeria</i> spp.	<i>Listeria</i> spp.	Bio-Rad Laboratories	AOAC-PTM # 080701	Environmental surfaces (stainless steel, plastic, ceramic. sealed concrete)	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L058	Reveal® 2.0 <i>Listeria</i> Test System	<i>Listeria</i> spp. excluding <i>L. grayi</i>	Neogen Corporation	AOAC-PTM # 041101	Pasteurized liquid egg, ice cream, parmesan cheese, 2% milk, deli turkey, hot dogs, frozen cooked hamburgers, pepperoni, pasteurized crab meat, smoked salmon, environmental surfaces (stainless steel, ceramic tile,	25g
L059	Roka <i>Listeria</i> Detection Assay	Listeria spp., (Listeria monocytogenes, L. innocua, L. welshimeri, L. ivanovii, L. seeligeri, L. grayi)	Roka Bioscience, Inc.	AOAC-PTM # 011201	Pasteurized whole milk, ice cream, brie cheese, hot dogs, cured ham, deli chicken, chicken salad, cold-smoked salmon, romaine lettuce. Stainless steel, sealed concrete, plastic (swab or	25g
L060	RapidChek® <i>Listeria</i> NextDay™ Food and Environmental Test System	<i>Listeria</i> spp.	Romer Labs Technology, Inc.	AOAC-PTM # 101102	Hot dogs (25g, 125g), roast beef (25g), frozen breaded chicken (25g, 125g), frozen meatballs (25g), whole milk (25g), ice cream (25g), ricotta cheese (25g), shredded Mexican cheese (125g), cheese powder (25g), and environmental surfaces (stainless steel [430SS, food grade], plastic [polyurethane, food grade], rubber [synthetic, food grade], and painted concrete [latex-based white	See "Validated Matrices"
L061b	TRANSIA® PLATE Listeria spp.	<i>Listeria</i> spp.	MilliporeSigma (part of Merck group)	AFNOR # TRA 02/06 - 11/95		25g
L062	TRANSIA® Plate Listeria monocytogenes	Listeria monocytogenes	MilliporeSigma (part of Merck group)	AFNOR # TRA 02/11 - 03/08	All human food products and environmental samples	N/A
L063a	VIDAS® <i>L. monocytogenes</i> Xpress (VIDAS LMX)	Listeria monocytogenes	bioMérieux	AFNOR # BIO 12/27 - 02/10	All human food products and environmental samples	25g
	VIDĀS® <i>Listeria monocytogenes</i> Xpress (LMX)	Listeria monocytogenes	bioMérieux, sa	AOAC-PTM # 091103	Spinach, peanut butter, shrimp, smoked fish, liver pâté, raw fermented sausage, turkey hot dogs, processed cheese, ice cream (25 g), ground beef (125 g), deli ham (125 g), deli turkey (125 g)	25g except where noted in "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
	VIDAS® <i>Listeria monocytogenes</i> Xpress (LMX) Method	Listeria monocytogenes	bioMérieux, sa	AOAC-OMA # 2013.11	Deli ham (25g, 125g), fermented sausage, liver pâté, processed cheese, vanilla ice cream, cooked shrimp, smoked white fish, frozen spinach, peanut butter, deli turkey (25g, 125g), queso fresco (125g), and ground	25g except where noted in "Validated Matrices"
L064a	VIDAS® <i>Listeria</i> (LIS)	<i>Listeria</i> spp.	bioMérieux	AFNOR # BIO 12/02 - 06/94	All human food products and production environment samples	25g/25mL
L064b	VIDAS® <i>Listeria</i> (LIS)	<i>Listeria</i> spp.	bioMérieux, sa	AOAC-OMA # 2004.06	Dairy products, vegetables, seafood, raw meats and poultry, and processed meats and poultry	25g
L064c	VIDAS® <i>Listeria</i> (LIS)	<i>Listeria</i> spp.	bioMérieux, sa	AOAC-OMA # 999.06	Dairy products, vegetables, seafoods, raw meats and poultry, and processed meats and poultry	25g
L064d	VIDAS® <i>Listeria</i> Assay (LIS)	<i>Listeria</i> spp.	bioMérieux, sa	AOAC-PTM # 981202	Raw meats and poultry, cooked and processed meats and poultry, seafood, vegetables, dairy products, & environmental samples	25g
L065a	VIDAS® <i>Listeria</i> DUO (LDUO)	Listeria monocytogenes and Listeria spp.	bioMérieux	AFNOR # BIO 12/18 - 03/06	All human food products and environmental samples	25g/25mL
	VIDAS® <i>Listeria</i> DUO (LDUO) with Ottaviani Agar	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	bioMérieux, sa	AOAC-PTM # 100702	cheese, pasteurized milk, yogurt, vanilla ice cream, raw pork, meat frankfurters, frozen ground beef, ham, roast beef, chicken frankfurters, raw ground chicken, raw cod, frozen cooked shrimp, crab meat, frozen green beans, cauliflower	25g
L066	VIDAS® <i>Listeria monocytogenes</i> 2 (VIDAS LMO2) (Enrichment at 30°C)	Listeria monocytogenes	bioMérieux	AFNOR # BIO 12/09 - 07/02	All human food products (except raw products) and environmental samples	25g
	VIDAS® <i>Listeria monocytogenes</i> 2 (VIDAS LMO2) (Enrichment at 37°C)	Listeria monocytogenes	bioMérieux	AFNOR # BIO 12/11 -03/04	All human food products and environmental samples	25g
L068c	VIDAS® <i>Listeria</i> species Xpress (LSX)	<i>Listeria</i> spp.	bioMérieux, sa	AOAC-OMA # 2010.02	Dairy products, vegetables, seafood, raw meats and poultry, and processed meats and poultry	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L069	VIDAS® LMO2	Listeria monocytogenes	bioMérieux, sa	AOAC-OMA # 2004.02	Dairy products, vegetables, seafood, raw meats and poultry, and processed meats and poultry.	25g
L070a	VIDAS® UP <i>Listeria</i> (LPT)	<i>Listeria</i> spp.	bioMérieux	AFNOR # BIO 12/33 - 05/12	Human food products and production environment samples	N/A
L070b	VIDAS® UP Listeria (LPT)	<i>Listeria</i> spp.	bioMérieux, sa	AOAC-OMA # 2013.10	Deli ham (25 and 125 g), pepperoni (25 g), beef hot dogs (25 g), chicken nuggets (25 g), chicken liver pâté (25 g), ground beef (125 g), deli turkey (125 g), cooked shrimp (25 g), smoked salmon (25 g), whole cantaloupe melon, bagged mixed salad (25 g), peanut butter (25 g), black pepper (25 g), vanilla ice	See "Validated Matrices"
L071a	VIP® Gold for <i>Listeria</i>	<i>Listeria monocytogenes</i> and <i>Listeria</i> spp.	BioControl Systems, Inc.	AOAC-OMA # 997.03	Dairy foods, red meats, pork, poultry and poultry products, seafood, fruits, vegetables, nutmeats, pasta, chocolate, eggs, bone meal, and environmental surfaces	25g
L071b	VIP® for <i>Listeria</i>	L. monocytogenes , L. seeligeri , L. welshimeri , L. ivanovii , L. grayi	BioControl Systems, Inc.	AOAC-PTM # 060801	Liquid pasteurized milk, Mexican soft cheese, raw beef trim, ready to eat turkey, raw green beans, raw fish, environmental surfaces (stainless steel, rubber,	25g
L072	Vitek GPI and GNI+	Listeria spp.	bioMérieux, sa	AOAC-OMA # 992.19	N/A	N/A
L073a	Solus <i>Listeria</i> ELISA	Listeria spp.	Solus Scientific (part of PerkinElmer Inc.)	AFNOR # SOL 37/02 - 06/13	Human food products and environmental samples	N/A
	Solus Scientific <i>Listeria</i> ELISA	<i>Listeria</i> spp.	Solus Scientific Ltd.	AOAC-PTM # 041601	Bagged romaine lettuce, hot dogs, frozen raw shrimp, smoked salmon, soft cheese (brie), stainless steel (swab, 1 x 1 in), polystyrene (sponge, 4	25g
L074	VITEK ® 2 Gram Positive (GP)	Gram-positive bacteria, including <i>Listeria</i> spp. and <i>Staphylococcus</i> spp.	bioMérieux, sa	AOAC-OMA # 2012.02	N/A	N/A
L075	InstantLabs® <i>Listeria</i> Species Food Safety Kit	Listeria spp.	InstantLabs Medical Diagnostics Corporation	AOAC-PTM # 041304	Hot dogs, raw Shrimp, cheddar cheese, and environmental surfaces (stainless steel, sealed concrete)	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L076	InstantLabs® <i>Listeria monocytogenes</i> Food Safety Kit	Listeria monocytogenes	InstantLabs Medical Diagnostics Corporation	AOAC-PTM # 051302	Hot dogs, deli turkey, romaine lettuce, raw shrimp, cheddar cheese, vanilla ice cream, pasteurized whole milk, and environmental surfaces (stainless steel, sealed	25g
L077	Veriflow™ <i>Listeria monocytogenes</i>	Listeria monocytogenes	Invisible Sentinel	AOAC-PTM # 051304	Beef hot dogs (14% fat), deli turkey (2% fat), stainless steel, ceramic tile, concrete, plastic	N/A
L078a	Thermo Scientific™ SureTect™ <i>Listeria</i> <i>monocytogenes</i> PCR Assay	Listeria monocytogenes	Oxoid Ltd. Part of Thermo Fisher Scientific	AOAC-PTM # 061302	Raw ground beef, pork frankfurters, salami, cooked sliced turkey, fresh bagged spinach, ice cream, smoked salmon, cooked prawns, fresh cantaloope, proceed cheese, raw ground turkey, raw ground pork, pasteurized 2% milk, raw pork sausage, raw cod, pasteurized brie cheese, cooked sliced ham, bagged lettuce, sliced deli turkey, bagged lettuce, pasturized 2% fat milk, plastic, (1x1 in swab) stainless steel	25g
L078b	Thermo Scientific™ SureTect™ <i>Listeria</i> <i>monocytogenes</i> PCR Assay	Listeria monocytogenes	OXOID Ltd, part of Thermo Fisher Scientific	AFNOR # UNI 03/08 - 11/13	All human food products and production environmental samples	N/A
L079	Atlas® <i>Listeria monocytogenes</i> LmG2 Detection Assay	Listeria monocytogenes	Roka Bioscience, Inc	AOAC-PTM # 111301	Hot dogs, cured ham, deli turkey (125g), chicken salad, environmental surfaces (stainless steel), frozen chocolate cream pie, frozen cheese pizza, vanilla ice cream, queso fresco (125g), autopatolauro	25g except where noted in "Validated Matrices"
L080	DETECT/L™ Test	Listeria spp. (L. monocytogenes, L. innocua, L. ivanovii, L. seeligeri, L. welshimeri & L. marthii)	Sample6	AOAC-PTM # 041401	Environmental surface (Stainless steel)	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
	<i>mericon</i> ® <i>Listeria monocytogenes</i> Pathogen Detection Assay	Listeria monocytogenes	Qiagen GmbH	AOAC-PTM # 061401	Uncooked hot dogs, deli turkey, smoked salmon, mung bean sprouts, pasteurized whole milk, environmental surfaces (stainless steel,ceramic tile, plastic, and sealed concrete), non-smoked gouda cheese, mozzerella	N/A
	<i>mericon</i> ® <i>Listeria monocytogenes</i> Pathogen Detection Assay	Listeria monocytogenes	Qiagen GmbH	AFNOR QIA 36/02 - 05/17	Meat and dairy products	N/A
	<i>mericon® Listeria species</i> Pathogen Detection Assay	<i>Listeria</i> spp.	Qiagen GmbH	AOAC-PTM # 061402	Uncooked hot dogs, deli turkey, smoked salmon, mung bean sprouts, pasteurized whole milk, environmental surfaces (stainless steel, ceramic tile, plastic, and sealed concrete), non-smoked gouda cheese, mozzerella cheese	N/A
L084a	Thermo Scientific™ SureTect™ <i>Listeria</i> species PCR Assay	<i>Listeria</i> spp.	OXOID Ltd, part of Thermo Fisher Scientific	AOAC-PTM # 071304	Raw ground beef, pork frankfurters, salami, ground pork, raw ground turkey, raw pork sausages, cooked sliced ham, cooked sliced turkey, pasteurized 2% milk, bagged lettuce, fresh bagged spinach, cantaloupe, processed cheese, smoked salmon, raw cod, cooked prawns, pasteurized brie cheese, ice cream, (sponge 4" x 4" enriched 225 mL of 24 LEB suplemented with 24 LEB selective supplement and 10 mL of LEB buffer supplement) stainless steel and plastic	25g except where noted in "Validated Matrices"
	Thermo Scientific™ SureTect™ <i>Listeria</i> Species PCR Assay	<i>Listeria</i> spp.	OXOID Ltd, part of Thermo Fisher Scientific	AFNOR # UNI 03/09 - 11/13	All human food products and production environmental samples	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L086	DuPont™ BAX® System Real-Time PCR Assay for Genus <i>Listeria</i>	<i>Listeria</i> spp.	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 081401	Frankfurters (beef), cooked shrimp, bagged lettuce, queso fresco (Mexican style cheese), and environmental surfaces (stainless steel, plastic, and concrete)	25g
L087a	3M™ Molecular Detection Assay (MDA) <i>Listeria monocytogenes</i> Method	Listeria monocytogenes	3M Food Safety	AOAC-OMA # 2014.07		25g except where noted in "Validated Matrices"
L088	Atlas <i>Listeria</i> Environmental LE Detection Assay	<i>Listeria</i> spp.	Roka Bioscience, Inc	AOAC-PTM # 061503	Stainless steel, PVC, plastic, sealed concrete	N/A
L089	DuPont BAX System Real-Time PCR Assay for <i>Listeria monocytogenes</i>	Listeria monocytogenes	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 121402	Beef frankfurters, bagged spinach, queso fresco, cooked shrimp, stainless steel, plastic & concrete	25g
L090a	ANSR for <i>Listeria monocytogenes</i>	Listeria monocytogenes	Neogen Corporation	AOAC-PTM # 061506	Hot dogs (125g), queso fresco, cantaloupe, guacamole, pasteurized liquid egg, sprout irrigation water (25mL), stainless steel	25g except where noted in "Validated Matrices"
L090b	ANSR for Listeria monocytogenes	Listeria monocytogenes	NEOGEN Europe Ltd.	AFNOR # NEO 35/04 - 03/16	All human food products and production environmental	N/A
L091a	3M™ Molecular Detection Assay 2 (MDA2) - <i>Listeria</i> species	<i>Listeria</i> spp.	3M Company (3M Food Safety)	AOAC-PTM # 111501	Beef hot dogs, deli turkey (125g), raw chicken (leg pieces and fillets), cold smoked salmon, whole melon, romaine lettuce, queso fresco, vanilla ice cream, 4% milk fat cottage cheese, bagged raw spinach, sealed concrete (4"x 4" sponge enriched in 100mL), plastic (1" x 1" swab enriched in 10mL), stainless steel (4"x 4" sponge enriched in 225 mL)	25g except where noted in "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L091b	3M [™] Molecular Detection Assay (MDA) 2 - <i>Listeria</i> Method	<i>Listeria</i> spp.	3M Food Safety	AOAC-OMA # 2016.07	hot dogs (25g, 125g), salmon, deli turkey (25g, 125g), cottage cheese, vanilla ice cream, queso fresco, spinach, melon (whole), raw chicken leg pieces, raw chicken fillet; concrete (3M [™] Hydrated Sponge Stick with D/E, 225mL, 100mL), stainless steel (3M [™] Hydrated Sponge Stick with D/E, 225mL), and plastic (3M [™] EnviroSwab with Letheen, 10mL) environmental samples	25g except where noted in "Validated Matrices"
L091c	3M™ Molecular Detection Assay 2 - <i>Listeria</i>	<i>Listeria</i> spp.	3M Health Care	AFNOR # 3M 01/14 - 05/16	All human food products and production environmental samples	N/A
	3M [™] Molecular Detection Assay 2 (MDA2) - <i>Listeria monocytogenes</i>	Listeria monocytogenes	3M Company (3M Food Safety)	AOAC-PTM # 081501	Beef hot dogs, deli turkey (125g), raw chicken (leg pieces and fillets), cold smoked salmon, whole melon, romaine lettuce, queso fresco, vanilla ice cream 4% milk fat	25g except where noted in "Validated Matrices"
	3M [™] Molecular Detection Assay (MDA) 2 - <i>Listeria monocytogenes</i> Method	Listeria monocytogenes	3M Food Safety	AOAC-OMA # 2016.08	hot dogs (25g, 125g), salmon, deli turkey (25g, 125g), cottage cheese, chocolate milk, vanilla ice cream, queso fresco, romaine lettuce, melon	25g except where noted in "Validated Matrices"
L092c	3M™ Molecular Detection Assay 2 - <i>Listeria</i> monocytogenes	Listeria monocytogenes	3M Health Care	AFNOR # 3M 01/15 - 09/16	All human food products and production environmental samples	N/A
L093	Veriflow™ <i>Listeria</i> spp.	<i>Listeria</i> spp.	Invisible Sentinel, Inc.	AOAC-PTM # 121302	Deli Turkey (125g), beef hot dogs, whey protein isolate, and environmental surfaces (1" x 1" swab or 4" x 4" sponge; stainless steel, ceramic tile, sealed concrete,	25g except where noted in "Validated Matrices"
L094	GeneQuence™ <i>Listeria monocytogenes</i> Test	Listeria monocytogenes	Neogen Corporation	AOAC-PTM # 120501	Deli turkey, deli ham, deli roast beef, hot dogs, raw ground beef, raw ground pork, smoked salmon, cooked crab meat, raw shrimp, ice cream, pasteurized milk, brie cheese, parmesan cheese, lettuce, frozen peas, and soy flour	25g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated Matrices	Validated Test Portion Size
L095	ANSR for <i>Listeria</i>	<i>Listeria</i> spp.	Neogen Europe Ltd.	AFNOR # NEO 35/05 - 07/16	All human food products and production environmental samples	N/A
L096	ANSR for Listeria monocytogenes	Listeria monocytogenes	Neogen Europe Ltd.	AFNOR # NEO 35/06 - 07/16	All human food products and production environmental samples	N/A
L097b	GENE-UP® <i>Listeria</i> spp.	<i>Listeria</i> spp.	bioMérieux	AFNOR # BIO 12/39 - 09/16	All human food products and production environmental samples	25g
L098	Xpress LM	Listeria monocytogenes	Crystal Diagnostics Corporate	AOAC-PTM # 071602	Stainless steel, plastic, ceramic tile	N/A
	GENE-UP® <i>Listeria monocytogenes</i> 2 (LMO 2)	Listeria monocytogenes	bioMérieux	AFNOR # BIO 12/40 - 11/16	All human food products and production environmental samples	25g
L100	BACSpec Listeria	Listeria spp. (including L. monocytogenes, L. seeligeri, L. welshimeri, L. marthii, L. ivanovii, L. grayi, L. innocua, and L. recourtiae)	Eurofins GeneScan	AOAC-PTM # 051703	Vegetable salad, frozen cantaloupe, soft white cheese, raw whole milk, frankfurter sausages, process water, smoked salmon, frozen cooked shrimp, stainless steel (1x1 in), sealed ceramic tile	25g
L101	BACGene Listeria Multiplex	Listeria monocytogenes & Listeria spp.	Eurofins GeneScan GmbH	AFNOR # EGS 38/05 - 03/17	All human food products (by performing validation assays on a broad range of foods) and production environmental samples	25g
L102	BAC <i>Gene Listeria</i> Multiplex	Listeria spp. (including L. monocytogenes, L. seeligeri, L. welshimeri, L. marthii, L. ivanovii, L. grayi, L. innocua, and L. recourtiae) and L. monocytogenes	Eurofins GeneScan	AOAC-PTM # 061701	Mayonnaise-based vegetable salad, frankfurters, raw whole milk, soft white cheese (<i>Listeria</i> spp. only), frozen cantaloupe balls, smoked salmon, frozen cooked shrimp (<i>Listeria</i> spp. only), stainless steel 304L (1x1 in swab), ceramic tile (4x4 in sponge), and process water, ice cream with chocolate inclusions, plastic surface samples with sponge (with and without backgroud flora of	25g
L103	BAC <i>Gene Listeria</i> spp.	<i>Listeria</i> spp.	Eurofins GeneScan GmbH	AFNOR # EGS 38/02 - 01/17	All human food products (by performing validation assays on a broad range of foods) and production environmental samples	25g

FSIS is making available a list of test kits that have been validated for detection of relevant foodborne pathogens (i.e., Salmonella, Campylobacter, Listeria spp. including L. monocytogenes, E. coli O157:H7 and non-O157 STEC). The list is intended to be informational and is not an endorsement or approval of any specific test kit, regardless of its inclusion in the list.

FSIS does not specifically endorse any of the mentioned test kits or products and acknowledges that equivalent test kits or products may be available for laboratory use. Likewise, FSIS does not require the use of any specific test kit, including those incorporated into FSIS's Microbiology Laboratory Guidebook methods. Instead, establishments and laboratories should choose test kits that are:

1) Validated for testing relevant foods by a:

a) Recognized independent body (i.e., AOAC, AFNOR, MicroVal, NordVal),

b) U.S. regulatory body (i.e., FSIS MLG or FDA BAM), or

c) International Organization for Standardization (ISO) process

2) In addition, the validated method should be:

a) Fit for the intended purpose and application (e.g., validated for the appropriate matrix and sample size to detect the appropriate foodborne pathogen), and

b) Performed per the conditions of the validated protocol by a laboratory that assures the quality of the analytical results.

The table below contains a list of foodborne pathogen test kits that are validated by recognized independent organizations (i.e., AOAC, AFNOR, MicroVal, NordVal) and therefore meet criterion 1a above. However, the test kits in this list are not necessarily equivalent or appropriate for all testing applications.

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC003	Assurance GDS for <i>E. coli</i> O157:H7	E. coli O157:H7	BioControl Systems	AOAC-OMA # 2005.04	Raw ground beef, beef trim, orange juice, apple juice, fresh vegetables, and sprout process water	25g
EC004	Assurance GDS Shigatoxin Genes	E. coli O157:H7 and E. coli O157:H7 nonmotile (NM)	BioControl Systems	AOAC-OMA # 2005.05	Raw ground beef, beef trim, orange juice, apple juice, fresh vegetables, and sprout process water	25g
EC005	Assurance® Enzyme Immunoassay (EIA)	E. coli O157:H7 (EHEC)	BioControl Systems	AOAC-OMA # 996.10	Dairy foods, meats, poultry products, fruits, nutmeats, seafood, pasta, liquid eggs, raw and cooked beef	25g
EC006a	BAX® Real-Time PCR Assay <i>E. coli</i> O157:H7	E. coli O157	DuPont Qualicon (DuPont Nutrition & Health Diagnostics)	AFNOR # QUA 18/07 - 07/10	Raw beef and raw vegetables	25g
EC006b	DuPont™ BAX® System Real-Time PCR Assay for <i>E. coli</i> O157:H7	E. coli O157:H7	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 031002	Lettuce & spinach; Beef trim (375 g) & ground beef (65 g)	25g except where noted in
EC007a	BAX® System <i>E. coli</i> O157:H7 MP	E. coli O157	DuPont Qualicon (DuPont Nutrition & Health Diagnostics)	AFNOR # QUA 18/04 - 03/08	Raw beef meat, raw milk, fruits, vegetables, Ready-to- Eat meals, raw pork meat, raw ovine meat, and raw chicken meat	25g
EC007b	DuPont [™] BAX® System PCR Assay for <i>E. coli</i> O157:H7 MP and the BAX® System MP Media	<i>E. coli</i> O157:H7	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 050501	Raw ground beef (25g, 65 g), beef trim (65g, 325g, 375g), spinach & lettuce (25 g), red	25g except where noted in "Validated
EC010	BBL™ CHROMagar™ O157	E. coli O157:H7	Becton Dickinson and Company	AOAC-PTM # 090501	Raw ground beef, unpasteurized apple cider	N/A

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC011	Duopath® STEC (formerly Duopath® Verotoxin)	stx1/st2 producing <i>E. coli</i>	Merck KGaA	AOAC-PTM # 020402	Pure culture	N/A
EC012	Hygiena Lateral Flow System <i>E. coli</i> O157	E. coli O157	Qualicon Diagnostics LLC, a Hygiena Company	AOAC-PTM # 010601	Boneless beef, ground beef, apple cider	25g
EC015b	foodproof® <i>E. coli</i> O157 Detection Kit, Hybridization Probes and foodproof® <i>E. coli</i> O157 Detection Kit, 5'Nuclease in combination with foodproof® ShortPrep II Kit	E. coli O157	BIOTECON Diagnostics GmbH	AOAC-PTM # 100601	Camembert cheese, egg salad, raw milk, mayonnaise, hamburger meat, brockwurst sausage, coalfish, fresh salmon, apple juice, raw vegetables	25g
EC016a	GeneDisc® <i>E. coli</i> O157:H7	E. coli O157	Pall GeneDisc Technologies	AFNOR # GEN 25/06 - 11/08	Raw beef meats (including frozen, seasoned), dairy products and vegetables	25g
EC016b	GeneDisc® Plate Pathogenic <i>E. coli</i> O157	E. coli O157	Pall GeneDisc Technologies	AOAC-PTM # 021102	Fresh raw ground beef and fresh raw beef trim	25g, 375g
EC017	GeneDisc® Plate Pathogenic <i>E. coli</i> O157 & <i>Salmonella</i>	E. coli O157 & Salmonella spp.	Pall GeneDisc Technologies	AOAC-PTM # 021104	Fresh raw ground beef, fresh raw beef trim	25g, 375g
EC019	IEH <i>E. coli</i> O157, Stx-producing <i>E. coli</i> (STEC) with Intimin and <i>Salmonella</i> Test System	E. coli O157, Stx-producing E. coli (STEC) with intimin & Salmonella ** E. coli 026, O45, O103, O111, O121 & O145		AOAC-PTM # 100701	g), raw beef trim (25 g, 375 g), raw poultry, RTE turkey & mixed leafy greens, (125g)	25g except where noted in "Validated Matrices"
EC020a	iQ-Check™ <i>E. coli</i> O157:H7 Real Time PCR	<i>E. coli</i> O157:H7	Bio-Rad Laboratories	AOAC-PTM # 020801	Ground beef, apple cider, fresh spinach (25 g), raw ground beef (83% lean), raw beef trim, fresh spinach (375 g), raw chicken breast without skin, raw chicken thigh with skin, mechanically separated chicken, raw ground pork (25	25g except where noted in "Validated Matrices"
EC020b	iQ-Check™ <i>E. coli</i> O157:H7 Kit	E. coli O157	BIO-RAD	AFNOR # BRD 07/15 - 06/08	Raw beef	25g
	Kit	<i>E. coli</i> O157:H7	Life Technologies	AOAC-PTM # 071001	Raw ground beef & raw beef trim (25 g, 375 g); spinach, orange juice, apple juice	25g except where noted in "Validated Matrices"
	3M Molecular Detection Assay <i>E. coli</i> O157 (including H7)	E. coli O157	3M Health Care	AFNOR # 3M 01/12 - 03/13	Raw beef meats, raw dairy products, raw fruits and	25g
	PATHATRIX Pooling System for <i>E. coli</i> O157 spp.		Life Technologies (Thermo Scientific)	AOAC-PTM # 030202	Raw ground beef	25g
	RapidChek® <i>E. coli</i> O157 (including H7) Lateral Flow Test Assay	E. coli O157	0,7	AOAC-PTM # 070801	beef trim	25g, 375g
	RAPID' <i>E. coli</i> O157:H7	E. coli O157:H7		AOAC-PTM # 060701	spinach	Sample preparation, enrichment, and IMS as per FSIS MI G Ch 5
EC025b	RAPID' <i>E. coli</i> O157:H7/Agar	E. coli O157:H7	BIO-RAD	AFNOR # BRD 07/14 - 09/07	Meat products, dairy products, fruits and vegetables, composite foods	25g/25mL

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC026a	Reveal for E. coli O157:H7 Test in Selected Foods and Environmental Swabs	<i>E. coli</i> O157:H7	Neogen Corporation	AOAC-OMA # 2000.14	Raw ground beef, raw beef cubes, apple cider, iceberg lettuce rinse, environmental swabs of stainless steel	25g, 375g (20hr enrichments)
EC026b	Reveal for <i>E. coli</i> O157:H7 Test System in Selected Foods	<i>E. coli</i> 0157:H7	Neogen Corporation	AOAC-OMA # 2000.13	Raw ground beef, raw beef cubes, iceberg lettuce rinse	25g (8hr enrichments), 375g (12hr enrichments)
	Reveal® 2.0 <i>E. coli</i> O157:H7 Test System	<i>Escherichia coli</i> serotypes O157:H7 & O157:NM	Neogen Corporation	AOAC-PTM # 011103	beef	65g, 375g
EC029	Singlepath® <i>E. coli</i> O157	E. coli O157 (including H7)	Merck KGaA	AOAC-PTM # 010407	Raw ground beef & pasteurized milk	25g
	VIDAS® UP <i>E. coli</i> O157 (including H7) (ECPT)	<i>E. coli</i> O157:H7	bioMérieux, sa	AOAC-PTM # 060903	Ground beef, beef trimmings (with sample sizes: 25 g,75 g & 375 g composite & wet pooled samples 75 g & 375 g), bagged lettuce, fresh spinach & irrigation water	
EC031b	VIDAS® UP <i>E. coli</i> O157 including H7 (VIDAS ECPT)	E. coli O157	bioMérieux	AFNOR # BIO 12/25 - 05/09	Raw meat products, raw milk and raw milk products, raw vegetables, and environmental samples	25g
EC032	Visual Immunoprecipitate Assay (VIP®) Assay	E. coli O157:H7	BioControl Systems	AOAC-OMA # 996.09	Dairy products, meats, poultry, fruits, nutmeats, seafood, pasta, liquid eggs, vegetables, raw beef, cooked beef	25g
EC033	Crystal Diagnostics MultPath System™ F	E. coli O157	Crystal Diagnostics Corporation	AOAC-PTM # 041301	Raw ground beef (375 g), fresh raw spinach (200 g)	See "Validated Matrices"
EC034	GeneDisc® Plate STEC	Shigatoxigenic <i>E. coli</i>	Pall GeneDisc Technologies	AOAC-PTM # 021103		25g, 375g
EC035	iQ-Check™ STEC VirX and SerO Real- Time PCR	<i>Stx1</i> , <i>Stx2</i> , <i>eae</i> , O26, O45, O103, O11, O121, O145, O157:H7, and STEC	Bio-Rad Laboratories	AOAC-PTM # 121203		25g
EC036	GeneDisc® Plate STEC & Salmonella spp.	Shigatoxigenic <i>E. coli</i> and <i>Salmonella</i> spp.	Pall GeneDisc Technologies	AOAC-PTM # 021105	Fresh raw ground beef, fresh raw beef trim	25g, 375g
	Atlas® <i>E. coli</i> O157:H7 EG2 Detection Assay	E. coli O157:H7	ROKA Bioscience, Inc	AOAC-PTM # 011401	Fresh raw ground beef (73% lean, 375 g), fresh raw beef trim (65 g), romaine lettuce (375 g)	See "Validated Matrices"
EC038	Atlas® STEC EG2 Combo Detection Assay	<i>E. coli</i> O157:H7 & non-O157 STEC	ROKA Bioscience, Inc	AOAC-PTM # 011402		375g
	InstantLabs <i>E. coli</i> O157 (including H7) Food Safety Kit		InstantLabs	AOAC-PTM # 011403	Fresh raw ground beef (27% fat, 375g), fresh raw beef trim (375g), fresh raw ground chicken, romaine lettuce, pasteurized apple luice	25g except where noted in "Validated Matrices"
EC040	GeneDisc® Plate STEC Top 7	<i>E. coli</i> O157:H7 & non-O157 STEC	Pall GeneDisc Technologies	AOAC-PTM # 031401	Fresh raw ground beef, fresh raw beef trim	375g

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC041	Actero™ <i>Salmonella</i> /STEC Enrichment Media	Salmonella spp./STEC (including O26, O45, O13, O111, O121, O145 & O157)	FoodChek System Inc.	AOAC-PTM # 041403	Raw ground beef	Contact Manufacturer
	NH Immunochromato O157 Test Kit	E. coli O157	NH Foods Ltd.	AOAC-PTM # 091403	Fresh ground beef (15% fat)	25g
	Thermo Scientific™ SureTect™ <i>Escherichia coli</i> O157:H7 PCR Assay	E.coli O157:H7	Oxoid Ltd. Part of Thermo Fisher Scientific	AOAC-PTM # 021501	Raw ground beef (375 g, 1:4 and 1:5 ratios); raw beef trim (375 g, 1:4 and 1:5 ratios); bagged spinach, (1:10 ratio) 25 g, and apple juice	25g except where noted in "Validated Matrices"
	Thermo Scientific™ SureTect™ <i>Escherichia coli</i> O157:H7 PCR Assay	Escherichia coli O157:H7	OXOID Ltd., part of Thermo Fisher Scientific	AFNOR # UNI 03/10 - 03/15	raw beef meats	25g
EC046	mericon ® E. coli O157 Screen PLUS	<i>E. coli</i> O157 (<i>stx1</i> , <i>stx2</i> , eae and O157)	Qiagen GmbH	AOAC-PTM # 101503	Raw ground beef (70% lean, 325 g), raw beef trim (325 g), fresh spinach (25 g)	See "Validated Matrices"
EC047	ANSR for E. coli O157:H7	E. coli O157:H7	Neogen Corporation	AOAC-PTM # 111502	Ground beef (80% lean, 325 g), beef trim (~20% fat, 375 g and 325 g), spinach (200 g), sprout irrigation water (125 ml)	See "Validated Matrices"
EC048	Solus <i>E. coli</i> O157 ELISA	E. coli O157	Solus Scientific (part_of PerkinElmer, Inc.)	AFNOR # SOL 37/03 -10/15	Raw beef meat products (seasoned or not), raw milks and dairy products, vegetables, and production environmental samples	N/A
EC049	Veriflow O157:H7	E. coli O157:H7	Invisible Sentinel, Inc.	AOAC-PTM # 121401	20% fat raw ground beef, raw spinach, and 2% fat milk, whey protein powder (25g), 20% raw ground beef (375g)	Contact Manufacturer
EC050	PhageDX <i>E. coli</i> O157:H7 Assay	E. coli O157:H7	Laboratory Corporation of America	AOAC-PTM # 081601	Fresh raw ground beef, 80% lean, fresh raw ground beef 70% lean, raw beef trim, containing >30% fat content (375g)	25g
EC052	Assurance® GDS for <i>E. coli</i> O157:H7 Tq Detection Kit	Escherichia coli O157:H7	BioControl Systems, Inc	MicroVal # 2015LR49	Raw beef meats (25 g, 375 g), dairy products (25 g), fruits and vegetables (25 g), environmental samples (25 g or surface sample)	See "Validated Matrices"
EC053	Veriflow® STEC	<i>Escherichia coli</i> with <i>stx1</i> or <i>stx2</i> and <i>eae</i>	Invisible Sentinel Inc.	AOAC-PTM # 111601	Raw beef trim	375g
EC054	3M Molecular Detection Assay 2 - <i>E.</i> <i>coli</i> O157 (including H7)	E. coli O157	3M Health Care	AFNOR # 3M 01/18 - 05/17	Raw beef meats, raw dairy products, raw fruits and vegetables	25g
	3M™ Molecular Detection Assay (MDA) 2–E. coli O157 (Including H7)	Escherichia coli O157:H7	3M Food Safety	AOAC-OMA # 2017.01	Raw ground beef (73% lean), frozen blueberries, fresh bean sprouts, and fresh baby spinach	25g
EC056	QIAGEN mericon® <i>E. coli</i> O157 Screen Plus and mericon® <i>E. coli</i> STEC O-Type Pathogen Detection Assavs	Escherichia coli O157:H7 and Escherichia coli non- O157 STEC	Qiagen Germantown, MD	AOAC-OMA # 2017.05	Fresh spinach (25 g), raw ground beef (70% lean) (325 g), raw beef trim (325 g)	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC057	GENE-UP® <i>E. coli</i> O157:H7 2 (ECO 2)	Escherichia coli O157:H7	bioMérieux	MicroVal # 2015LR59	Fresh and frozen raw meats, cured and fermented meats, vegetables, raw dairy products using a specific protocol and raw meats (except poultry) using a short protocol (25 g and 375 g sample size), and production environmental	See "Validated Matrices"
EC058	VereBeef™ Detection Kit	(8-20 hr) Escherichia coli O157:H7, STEC virulence factors (Stx1A or Stx2A and eae) (10-20 hr) Escherichia coli O26, O45, O103, O111, O121, O145, Salmonella spp.	Veredus Laboratories Pte, Ltd.	AOAC-PTM # 011801	Raw beef trim 25 g, 325 g, 375 g	See "Validated Matrices"
EC059	PolySkope 1.0 Multiplex Detection Assay		PolySkope Labs	AOAC-PTM # 041801	(25g) Fresh raw ground beef (73% lean), deli turkey, fresh baby spinach, stainless steel (4x4 in sponge)	See "Validated Matrices"
EC060	GENE-UP® E. coli O157:H7 2 (ECO 2)	E. coli O157:H7	bioMérieux, s.a.	AOAC-PTM # 121805	Ground beef (25 g, 375 g), raw spinach (200 g), beef trim (375 g), raw ground pork (375 g), raw ground chicken (25 g)	See "Validated Matrices"
EC061	GENE-UP® <i>E. coli</i> O157:H7 2 (ECO 2)	<i>E. coli</i> O157:H7	bioMérieux, s.a.	AOAC-OMA # 2019.03	Raw ground beef (73% lean; 25 g and 375 g), fresh spinach (200 g), raw milk cheese (25 g), raw ground chicken (25 g), raw beef trim (25 g and 375 g), raw ground pork (375 g), Romaine lettuce (375 g), raw sausage (25 g), raw milk (25 g), raw ground veal, (25 and 375 g) and process water (25	See "Validated Matrices"
EC062	NeoSeek™ STEC	EHEC <i>Escherichia coli</i> O157 and O26, O45, O103, O111, O121, O145	Neogen Corporation	AOAC-PTM # 081901	Raw beef trim, pure bacterial cultures	Contact Manufacturer
EC063	Assurance® GDS EHEC ID for <i>E. coli</i> O157:H7 Tq	Escherichia coli O157:H7,	BioControl Systems, Inc. / MilliporeSigma	AOAC-PTM # 101901	Raw ground beef (375 g, ~85% lean), raw beef trim (375 g, ~85% lean), frozen finely textured beef (375 g, 97% lean), carcass cloths	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
EC064	BACGene <i>E. coli O157:H7</i>	E. coli O157:H7	Eurofins GeneScan Technologies, GmbH	AOAC-PTM # 022002	Fresh raw ground beef (375 g), fresh raw beef trim (375 g), beef carcass sampling cloth (4" x 4"), romaine lettuce (375 g), all-purpose flour (25 g), stainless steel (4" x 4", 18- gauge 300 series, brush finish, NSF-certified), unglazed carcamin tile (1" x 1")	See "Validated Matrices"
EC065	BACGene <i>E. coli O157:H7</i>	E. coli O157:H7	Eurofins GeneScan Technologies, GmbH	AFNOR # EGS 38/06 - 11/19	Raw meat, ready-to-eat and ready-to-reheat meat (except poultry), raw milk and raw milk based products, fresh produces and fruits	25g
EC066	BAX System Real-Time PCR Assays for STEC Suite and BAX System Real- Time PCR Assays for E.coli O157:H7	Shiga toxin-producing Escherichia coli (O26, O103,O111, O145, O121 and O157:H7) serogroups	Qualicon Diagnostics LLC.	AFNOR # QUA 18/11 - 12/20	Raw beef meat, raw dairy products and vegetables products	25g
EC067	GENE-UP® EHEC Detection Method	E. coli (O26, O45, Ö103, O111, O121, O145, O157)	bioMérieux Inc.	AOAC-OMA # 2020.06	Raw beef trim, raw ground beef (73 and 80% lean), raw veal, raw milk, and raw milk cheese; 200 g test portions of spinach; 375 g test portions of raw ground beef (73% lean), raw beef trim, and Romaine	25g except where noted in "Validated Matrices"
EC068	BAX System Real-Time PCR Assay for <i>E. coli</i> O157:H7 Exact	E. coli O157:H7	Hygiena	AOAC-PTM # 102003	Fresh raw ground beef (25 and 375 g, 73% lean), fresh raw beef trim (325 and 375 g), leafy greens (375 g), raw fluid milk (25 g)	See "Validated Matrices"

FSIS is making available a list of test kits that have been validated for detection of relevant foodborne pathogens (i.e., Salmonella, Campylobacter, Listeria spp. including L. monocytogenes, E. coli O157:H7 and non-O157 STEC). The list is intended to be informational and is not an endorsement or approval of any specific test kit, regardless of its inclusion in the list.

FSIS does not specifically endorse any of the mentioned test kits or products and acknowledges that equivalent test kits or products may be available for laboratory use. Likewise, FSIS does not require the use of any specific test kit, including those incorporated into FSIS's Microbiology Laboratory Guidebook methods. Instead, establishments and laboratories should choose test kits that are:

1) Validated for testing relevant foods by a:

- a) Recognized independent body (i.e., AOAC, AFNOR, MicroVal, NordVal),
- b) U.S. regulatory body (i.e., FSIS MLG or FDA BAM), or
- c) International Organization for Standardization (ISO) process

2) In addition, the validated method should be:

a) Fit for the intended purpose and application (e.g., validated for the appropriate matrix and sample size to detect the appropriate foodborne pathogen), and

b) Performed per the conditions of the validated protocol by a laboratory that assures the quality of the analytical results.

The table below contains a list of foodborne pathogen test kits that are validated by recognized independent organizations (i.e., AOAC, AFNOR, MicroVal, NordVal) and therefore meet criterion 1a above. However, the test kits in this list are not necessarily equivalent or appropriate for all testing applications.

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
STEC001		Shigatoxigenic Escherichia coli	Pall GeneDisc Technologies	AOAC-PTM # 021103	Fresh ground beef (25 g, 375 g), fresh beef trim (25 g, 375 g)	See "Validated Matrices"
STEC003	Time PCR	Stx1, Stx2, eae, O26, O45, O103, O11, O121, O145, O157:H7. and STEC	Bio-Rad Laboratories	AOAC-PTM # 121203	Raw beef trim, raw ground beef, fresh spinach	375g
	GeneDisc® Plate STEC & Salmonella spp.	Shigatoxigenic <i>E. coli</i> and Salmonella spp.	Pall GeneDisc Technologies	AOAC-PTM # 021105	Fresh raw ground beef, fresh raw beef trim	25g, 375g
STEC005	(STEC) with Intimin and <i>Salmonella</i> Test System	<i>E. coli</i> O157, Stx-producing <i>E. coli</i> (STEC) with intimin & <i>Salmonella</i> ** <i>E. coli</i> O26, O45, O103, O111, O121 & O145	IEH Laboratories & Consulting Group	AOAC-PTM # 100701	Raw ground beef (25 g,375 g), raw beef trim (25 g, 375 g), raw poultry (25 g, 375 g), RTE turkey & mixed leafy greens (25g, 125g)	noted in
	Assay Suite for STEC	STEC Shiga Toxin producing <i>E. coli</i> O26,O111, O121, O45, O103, O145	Hygiena	AOAC-PTM # 091301	Raw beef trim (375 g), raw ground beef (325 g, 375 g), raw ground beef plus soy (325 g), raw ground beef (25 g), and all-purpose flour (25 g)	See "Validated Matrices"
STEC007		STECs including: O26, O45, O103, O111, O121, O145, & O157	,	AOAC-PTM # 071301	Raw beef trim (375 g), raw ground beef (375 g), spinach (375 g), leafy greens and spinach (25 g), stainless steel (4" x 4" sponge)	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
STEC008	Atlas® STEC EG2 Combo Detection Assay	E. coli O157:H7 & non- O157 STEC	ROKA Bioscience, Inc	AOAC-PTM # 011402	Fresh raw ground beef (73% lean, 375 g), fresh raw beef trim,(375 g), romaine lettuce, (375 g)	See "Validated Matrices"
STEC009	GeneDisc® Plate STEC Top 7	<i>Escherichia coli</i> O157:H7, O26, O45, O103, O111, O121, O145	Pall GeneDisc Technologies	AOAC-PTM # 031401	Fresh raw ground beef (20% fat, 375 g), fresh raw beef trim (20% fat, 375 g)	See "Validated Matrices"
STEC010	Actero™ <i>Salmonella</i> /STEC Enrichment Media	Salmonella spp./STEC (including O26, O45, O13, O111, O121, O145 & O157)	FoodChek System Inc.	AOAC-PTM # 041403	Raw ground beef (25, 325 g), raw ground chicken (25 g), chicken carcass rinse, dried whole egg (100 g) whole liquid egg (100 g), raw frozen scallops (25 g), sprouts (25 g),raw almonds (375 g), peanut butter (25 g), dried parsley (25 g), whole black pepper (25 g), dried raisins (25 g) and Environmental surfaces: stainless steel (1x1 in), plastic, rubber (1x1 in), ceramic tiles (1x1 in), sealed concrete (1x1 in), dry pet food (25, 275 g), milk chocolate (25 g), chocolate liquor (25 g), cocoa powder (25 g), shell egg	See "Validated Matrices"
STEC011	Assurance GDS® Top 7 STEC (<i>eae</i>) Tq with Assurance GDS® Shiga Toxin Genes (Top 7) Tq	Top 7 Shiga toxin-producing <i>Escherichia coli</i> (STEC) serotypes O26, O45, O103, O111, O121, O145, and O157	BioControl Systems, Inc.	AOAC-PTM # 071303	Raw beef trim, raw ground beef (375 g), mixed greens and spinach (25 g)	Contact Manufacturer
STEC012	Xpress E7 STEC	<i>E. coli</i> serogroups O26, O45, O103, O111, O121, O145, and O157	Crystal Diagnostics Corporate	AOAC-PTM # 011502	Raw ground beef and beef trim (325 g), Spinach (200 g)	See "Validated Matrices"
STEC014	Assurance GDS® MPX ID for Top STEC (MPX ID)	Top 6 Shiga toxin-producing Escherichia coli (STEC) serotypes O26, O45, O103, O111, O121, O145	BioControl Systems, Inc.	AOAC-PTM # 101502	Raw ground beef 20% fat (375 g), raw beef trim 45% fat (375 g), raw spinach (375 g), stainless steel (4"x4" sponge)	See "Validated Matrices"
STEC015	<i>mericon</i> ® <i>E. coli</i> STEC O-type Pathogen Detection Assay	<i>E. coli</i> non-O157 STECs (O26, O45, O103, O111, O121, O145)	Qiagen GmbH	AOAC-PTM # 101504	Raw ground beef (70% lean, 325 g), raw beef trim (325 g), fresh spinach (25 g)	See "Validated Matrices"
	Duopath® STEC (formerly Duopath® Verotoxin)	Stx1/Stx2 producing E. coli	Merck KGaA	AOAC-PTM # 020402	Pure culture	N/A
STEC017	Applied BioSystems™ RapidFinder™ STEC Detection Workflow	E. coli O157:H7 and "Big Six" non-E. coli STEC serotypes (O26, O45, O103, O111, O121, O145)	Thermo Fisher Scientific	AOAC-PTM # 061602	Fresh raw ground beef (73% lean, 375 g), fresh raw beef trim (375 g)	See "Validated Matrices"
	Veriflow® STEC	<i>Escherichia coli</i> with Stx1 or Stx2 and eae	Invisible Sentinel Inc.	AOAC-PTM # 111601	Raw beef trim	375g
STEC020	QIAGEN mericon® <i>E. coli</i> O157 Screen Plus and mericon® <i>E. coli</i> STEC O-Type Pathogen Detection Assays	Escherichia coli O157:H7 and Escherichia coli non- O157 STEC	Qiagen Germantown, MD	AOAC-OMA # 2017.05	Fresh spinach (25 g), raw ground beef (70% lean; 325 g), raw beef trim (325 g)	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
	VereBeef™ Detection Kit	(8-20 hr) Escherichia coli O157:H7, STEC virulence factors (Stx1A or Stx2A and eae) (10-20 hr) Escherichia coli O26, O45, O103, O111, O121, O145, Salmonella spp.	Veredus Laboratories Pte, Ltd.	AOAC-PTM # 011801	Raw beef trim 25 g, 325 g, 375 g	See "Validated Matrices"
STEC022	PDX-STEC	Shiga toxin-producing <i>E. coli</i> (STEC), <i>Salmonella</i> spp.	Paradigm Diagnostics, Inc.	AOAC-PTM # 101705	Raw ground beef	325g
STEC023	PolySkope 1.0 Multiplex Detection Assay	STECs, <i>E. coli</i> O157:H7 & Non-O157 STEC Big 6 (O26, O45, O103, O111, O121, O145), <i>Listeria</i> <i>monocytogenes, Salmonella</i> spp.	PolySkope Labs	AOAC-PTM # 041801	(25 g) Fresh raw ground beef (73% lean), deli turkey, fresh baby spinach, stainless steel (4x4 in sponge)	See "Validated Matrices"
	GENE-UP® EHEC Series (EH1, EH2, ECO 2) - (formerly GENE-UP® EHEC Series PTM 031701)	Escherichia coli O157:H7 & non-O157 STEC Top 6	bioMérieux, s.a.	AOAC-PTM # 121806	Raw beef trim (375 g with enrichment 10-24h), raw ground beef (25 g with enrichment 8-24h and 375 g with enrichment 10-24h), spinach (200 g with enrichment 10-24h), spinach	See "Validated Matrices"
STEC025	NeoSeek™ STEC	EHEC <i>Escherichia coli</i> O157 and O26, O45, O103, O111, O121, O145	Neogen Corporation	AOAC-PTM # 081901	Raw beef trim, pure bacterial cultures	Contact Manufacturer
STEC026	GeneDisc® STEC	Shiga toxin-producing Escherichia coli (O26, O103,O111, O145, O157)	Pall GeneDisc Technologies	AFNOR # GEN 25/09 - 03/19	Raw beef meat, raw dairy products and vegetables	25g
	3M™ Molecular Detection Assay 2 - STEC Gene Screen	STEC/Shiga-toxin producing enterohemorrhagic <i>E. coli</i> (<i>E. coli</i> strains containing <i>Escherichia coli</i> genes <i>stx1</i> (codes for Shiga toxin type 1) and/or <i>stx2</i> (codes for Shiga toxin type 2), and <i>eae</i> gene (codes for intimin)		AOAC-PTM # 071902	Fresh raw beef trim (375 g,~75% lean) fresh raw ground beef (375 g,~73% lean), fresh raw spinach (200 g), fresh raw ground beef (25 g, ~75% lean), fresh raw ground pork (375 g, ~70% lean), fresh raw poultry parts (375 g), sprouts (25 a)	
STEC028	3M™ Molecular Detection Assay 2 - STEC Gene Screen	STEC/Shiga-toxin producing enterohemorrhagic <i>E. coli</i> (<i>E. coli</i> strains containing <i>Escherichia coli</i> genes <i>stx1</i> - codes for Shiga-toxin type 1) and/or <i>stx2</i> (codes for Shiga- toxin type 2)	3M Food Safety	AOAC-PTM # 071903	Fresh raw ground beef (375 g,~73% lean), fresh raw spinach (200 g), fresh raw ground beef (25 g, ~75% lean), fresh raw beef trim (25 g,~75% lean), fresh raw ground pork (375 g, ~70% lean), fresh raw poultry parts	See "Validated Matrices"

#	Method Name	Target Organism(s)	Manufacturer	External Validation	Validated matrices	Validated Test Portion Size
STEC029	BACGene STEC Top7 Workflow	STEC Top 7 (<i>Escherichia</i> <i>coli O157:H</i> 7 & non- <i>O157</i> STEC <i>E. coli O</i> 26, O45, O103, O111, O121, O145)	Eurofins GeneScan Technologies, GmbH	AOAC-PTM # 022003	Fresh raw ground beef (375	See "Validated Matrices"
STEC030	SUPREME Real Time Detection Kit <i>E.</i> coli	(EPEC) <i>E.coli</i> O157, <i>E. coli</i> O111, O26, O103, O145 serotypes containing stx1 and/or stx2 and eae genes (STEC)	BPMR - Producao e Desenvolvimento, Lda	AOAC-PTM # 081902	Raw ground beef, cream cheese, mixed lettuce, can orange juice	25g
	Thermo Scientific [™] SureTect [™] STEC Screening PCR Assay and Thermo Scientific [™] SureTect [™] STEC Identification	Shiga toxin-producing Escherichia coli (O26, O103,O111, O145, O157) serogroups	Oxoid Ltd. Thermo Fisher Scientific	AFNOR # UNI 03/13 - 10/20	Raw meats (including poultry meats), dairy products and vegetables including fruits	25g
	BAX System Real-Time PCR Assays for STEC Suite and BAX System Real-Time PCR Assays for E.coli O157:H7	Shiga toxin-producing Escherichia coli (O26, O103,O111, O145, O121 and O157:H7) serogroups	Qualicon Diagnostics LLC.	AFNOR # QUA 18/11 - 12/20	Raw beef meat, raw dairy products and vegetables products	25g
STEC033	GENE-UP® EHEC □	STEC	bioMérieux	MicroVal # 2018LR84	, 11 , 13	See "Validated Matrices"