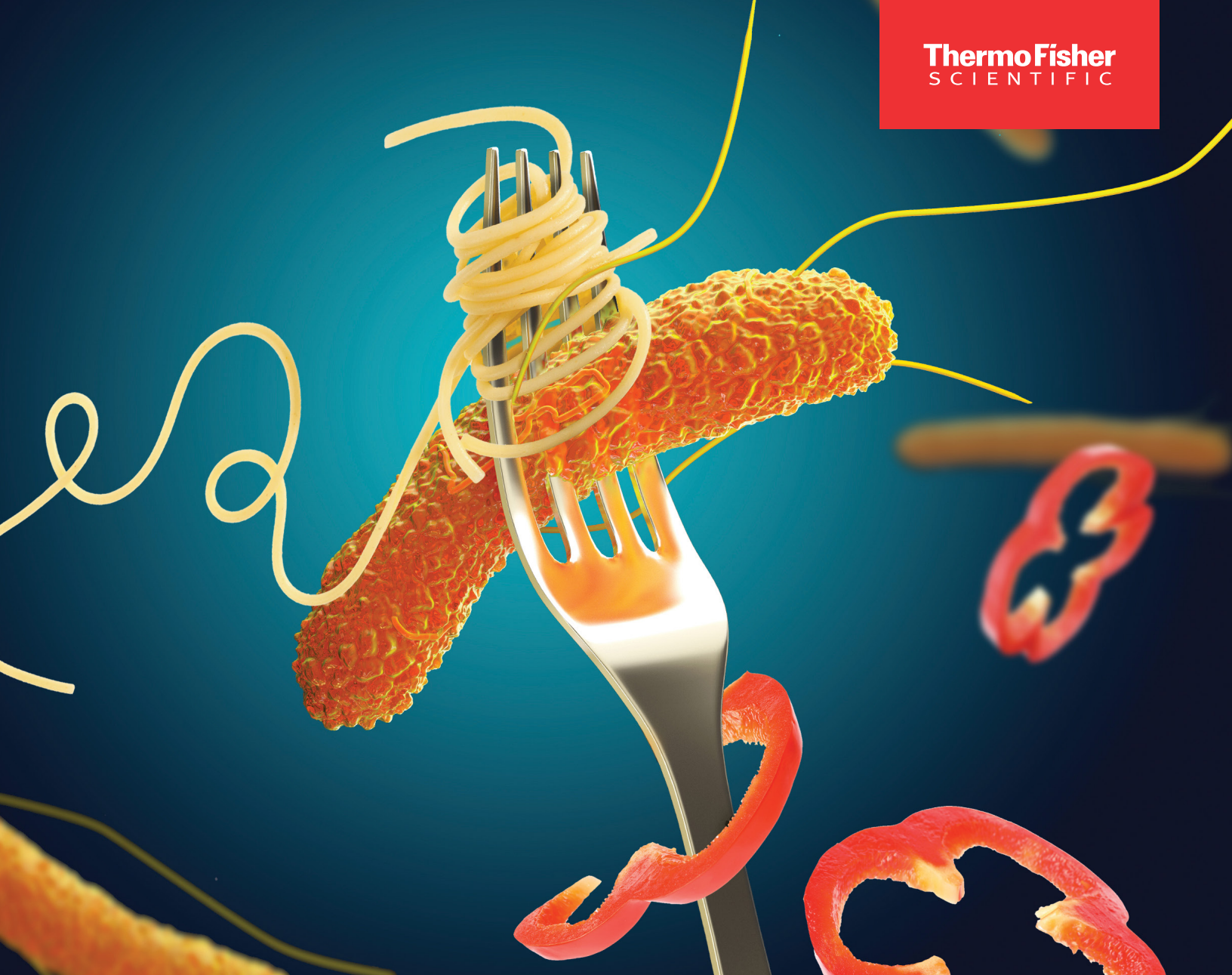




Food safety testing

Food Microbiology Testing Methods: *Salmonella* species

Salmonella species

The genus *Salmonella* belongs to the family Enterobacteriaceae. *Salmonella* are gram-negative, non-spore forming rods. There are over 2,500 serovars of *Salmonella*, which are characterized according to somatic (O) and flagellar (H) antigens.

Salmonellae are chemoorganotrophic, with an ability to metabolize nutrients by both respiratory and fermentative pathways. The bacteria are oxidase and catalase negative, grow optimally at 37°C, and catabolize D-glucose and other carbohydrates with the production of acid and gas. However, they readily adapt to extreme environmental conditions and can grow at both elevated and refrigerated temperatures.

Incidence

Salmonellosis is the most frequently reported cause of foodborne illness. An estimated one million cases occur annually in the United States; of these, approximately 35,000 are laboratory-confirmed cases reported to the Centers for Disease Control and Prevention.

Infective dose

The ingestion of fewer than 1000 cells can constitute a human infectious dose. Lower cell numbers can be highly infectious, especially in high fat foods where the microorganism can escape the gastric acidity and be released in the intestine through bile mediated dispersion of the lipids.

Foods affected

Despite the general perception that chicken and egg products are the primary source of *Salmonella* infections, many outbreaks in recent years have been associated with tomatoes, peanut butter, and vegetable sprouts. Other affected foods include: raw meat, powdered infant formula, milk and dairy products, fish, cake mixes and chocolate, as well as pet food and animal feed.

The detection of *Salmonella* in foods before they are consumed is vital for safeguarding public health, and essential for preserving the financial health and reputation of food businesses.

Methods overview

The following methods described for *Salmonella* species include reference and alternative validated and certified methods as follows:

1. Reference Method: ISO 6579-1:2017 Microbiology of the food chain – Horizontal method for the detection, enumeration and serotyping of *Salmonella* – Part 1: Detection of *Salmonella* spp.
2. Reference Method: USDA FSIS MLG 4.15 - Isolation and Identification of *Salmonella* - Rapid Screening *Salmonella* Test Procedure
3. Reference Method: FDA BAM Chapter 5 - *Salmonella* Isolation Method
4. Alternative Method: Thermo Scientific™ SureTect™ *Salmonella* species PCR Assay Workflow
5. Alternative Method: Thermo Scientific™ SureTect™ *Salmonella* species, Typhimurium and Enteritidis Multiplex PCR Workflow
6. Alternative Method: Thermo Scientific™ SureCount™ *Salmonella* Species, Typhimurium and Enteritidis Multiplex PCR Workflow
7. Alternative Method: Thermo Scientific™ SureTect™ *Salmonella* Infantis PCR Assay Workflow
8. Alternative Method: Thermo Scientific™ *Salmonella* PreciS™ Method

References

1. United States Food and Drug Administration. Bad Bug Book, 2nd Edition: Foodborne pathogenic microorganisms and natural toxins handbook: *Salmonella*: <https://www.fda.gov/food/foodborne-pathogens/bad-bug-book-second-edition>.
2. D'Aoust J, Maurer J. 2007. *Salmonella* Species, p 187-236. In Doyle M, Beuchat L (ed), Food Microbiology: Fundamentals and Frontiers, Third Edition. ASM Press, Washington, DC.

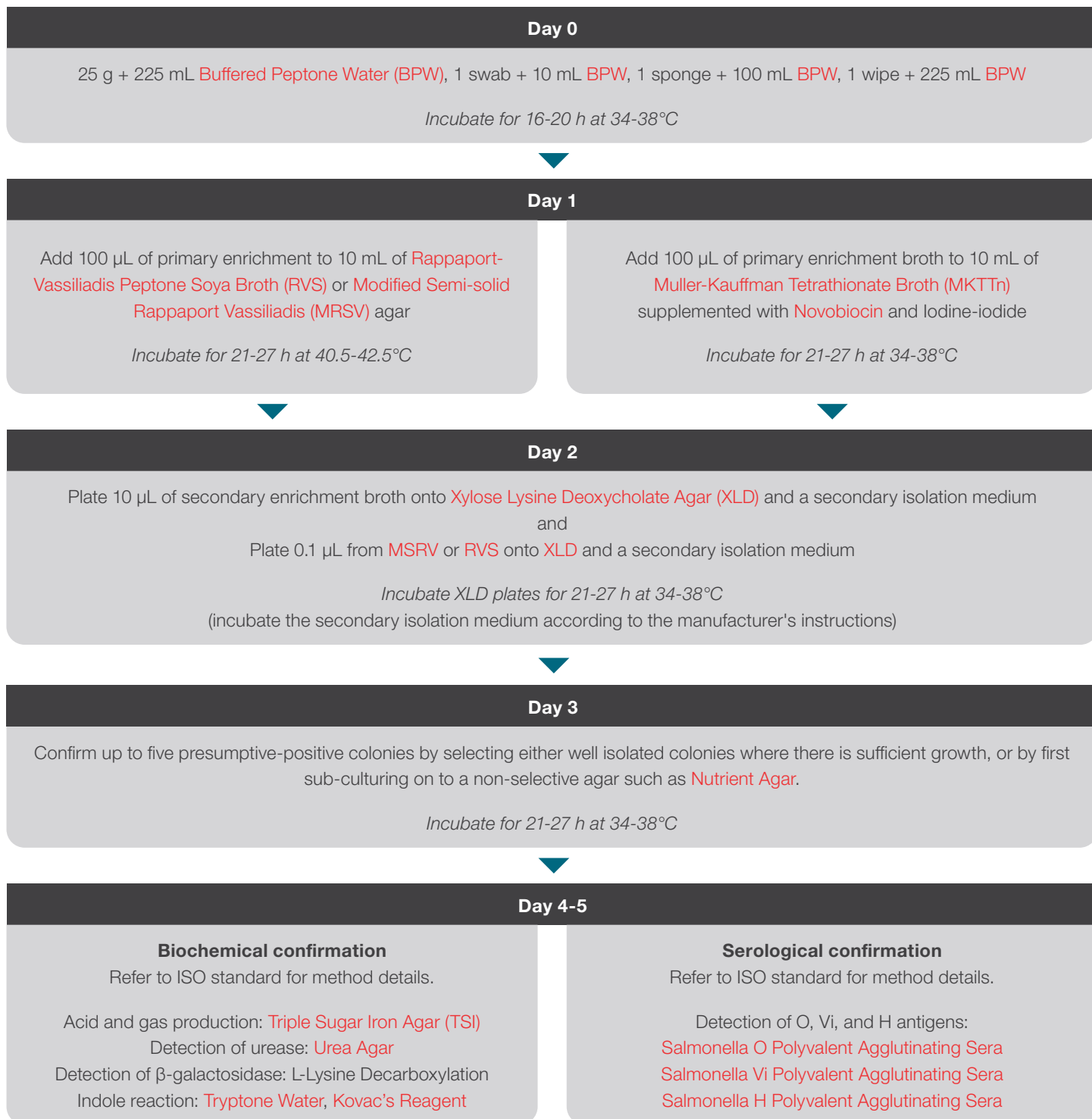
Reference Method: ISO 6579:2017 Microbiology of the food chain

Horizontal method for the detection, enumeration and serotyping of *Salmonella*

Part 1: Detection of *Salmonella* spp.

This is a summary of ISO 6579:2017 Part 1: Detection of *Salmonella* spp. in food (including milk and milk products), in animal feed, in animal faeces, and in environmental samples from the primary production stage.

Workflow overview for ISO 6579:2017 Part 1



Product order information for testing according to ISO 6579:2017 Part 1: Detection of *Salmonella* spp.

Product description		Format	Order code
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water (ISO) (BPW)	500 g, makes 25 L	CM1049B
	RVS Broth	500 g, makes 18.7 L	CM0866B
	MSRV Agar (ISO)	MRSV Agar (ISO) Base	500 g, makes 15.8 L
	PrecisBlue Supplement	80 x 25 g samples	SR0259A
	Novobiocin Supplement	Novobiocin Selective Supplement - freeze-dried	10 vials of 10 mg
		Novobiocin Selective Supplement - liquid (40 mL/vial)	10 vials of 40 mg
	MKTTn Broth	MKTTn Broth Base	500 g, makes 6.1 L
	XLD Agar		500 g, makes 9.4 L
	<i>Brilliance</i> ™ Salmonella Agar	<i>Brilliance</i> Salmonella Agar Base	500 g, makes 9.3 L
		<i>Brilliance</i> Salmonella Agar Selective Supplement	10 vials, each for 500 mL
	Nutrient Agar		500 g, makes 17.8 L
	TSI Agar		500 g, makes 7.7 L
	Urea Agar	Urea Agar Base	500 g, makes 20.8 L
		40% Urea Solution	10 vials, each for 100 mL
	Tryptone Water		500 g, makes 33.3 L
Thermo Scientific™ Oxoid™ Kovac's Reagent		10 mL bottle	MB0209A
Thermo Scientific™ Remel™ Salmonella O Polyvalent Agglutinating Sera (group A - S)		2 mL vial	R30858201
Thermo Scientific™ Remel™ Salmonella O/Vi Polyvalent Agglutinating Sera		2 mL vial	R30957401
Thermo Scientific™ Remel™ Salmonella H Polyvalent Agglutinating Sera		2 mL vial	R30858501

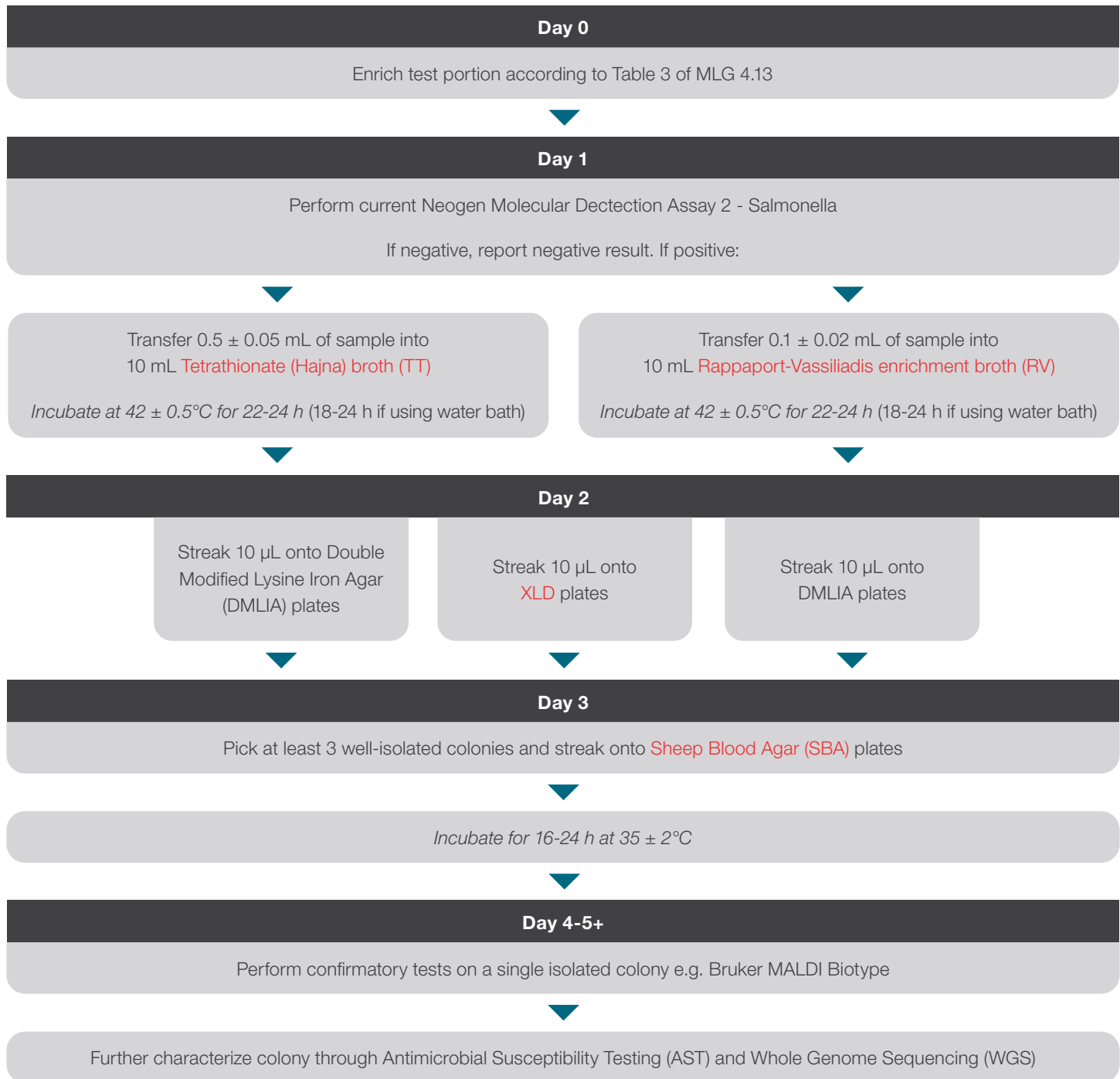
Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Reference Method: USDA FSIS MLG 4.15 - Isolation and Identification of *Salmonella*

Rapid Screening *Salmonella* Test Procedure

This is a summary of the Rapid Screening *Salmonella* Test Procedure from USDA FSIS MLG 4.15 - Isolation and Identification of *Salmonella* from Meat, Poultry, Pasteurized Egg, Carcass, and Environmental Sponges.

Workflow overview for USDA FSIS MLG 4.15 - Isolation and Identification of *Salmonella* - Rapid Screening *Salmonella* Test Procedure



Product order information for testing according to USDA FSIS MLG 4.13 - Isolation and Identification of *Salmonella* - Rapid Screening *Salmonella* Procedure

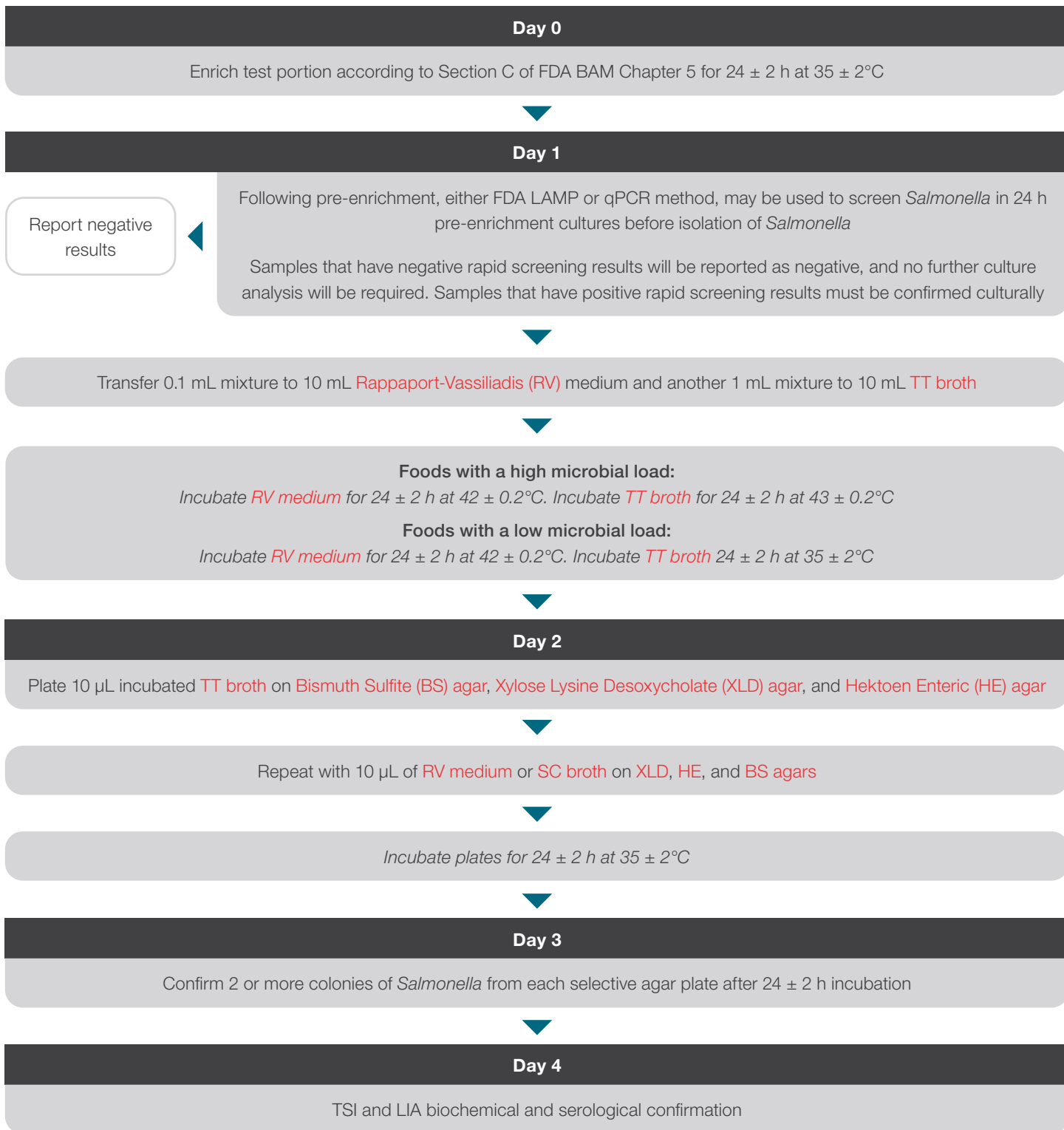
Product description		Format	Order code
Thermo Scientific™ Culture Media	Remel™ TT Broth	500 g, makes 10.9 L	CM0671B
	Oxoid™ Buffered Peptone Water (ISO)	500 g, makes 25 L	CM1049B
	Oxoid™ mTSB Broth	500g, makes 12.5 L	CM0989B
	Oxoid™ RV Broth	500 g, makes 16.7 L	CM0669B
	Remel™ XLD Agar	500 g, makes 9 L	CM0263B
	Oxoid™ BSA Agar	500 g, makes 12.5 L	CM0854B

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Reference Method: FDA BAM Chapter 5 - *Salmonella* Isolation Method

This is a summary of the standard reference *Salmonella* isolation method cited in the U.S Food & Drug Administration Bacteriological Analytical Manual.

Workflow overview for FDA BAM Chapter 5 - *Salmonella* Isolation Method



Product order information for testing according to FDA BAM Chapter 5 - *Salmonella* Isolation Method

Product description		Format	Order code
Thermo Scientific™ Oxoid™ Culture Media	TT Broth	500 g, makes 10.9 L	CM0671B
	RV Broth	500 g, makes 16.7 L	CM0669B
	SC Broth	500 g	CM0699B
	BS Agar	500 g, makes 25 L	CM0201B
	HE Agar	500 g, for 6.6 L	CM0419B
	XLD Agar	500 g, makes 9.4 L	CM0469B

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Alternative Method:

Thermo Scientific™ SureText™ Salmonella species PCR Assay

A rapid real-time PCR method for the enrichment, detection and confirmation of *Salmonella* species in food, feed products, and environmental samples:

- Validated according to AOAC International and the ISO 16140 2:2016 standard
- Streamlined and rapid workflow – 96-well runs can be prepared with just a few simple steps
- Single enrichment protocols for faster time-to-result and streamlined workflow
- Pre-dispensed reagents, reducing handling steps and risk of error
- Universal PCR conditions for detecting multiple targets in the same run
- Intuitive, user-friendly software, avoiding subjective interpretation
- ‘Plug and play’ ready-to-use instruments out of the box
- Reduced time-to-result: 1 day compared with up to 5 days for reference methods

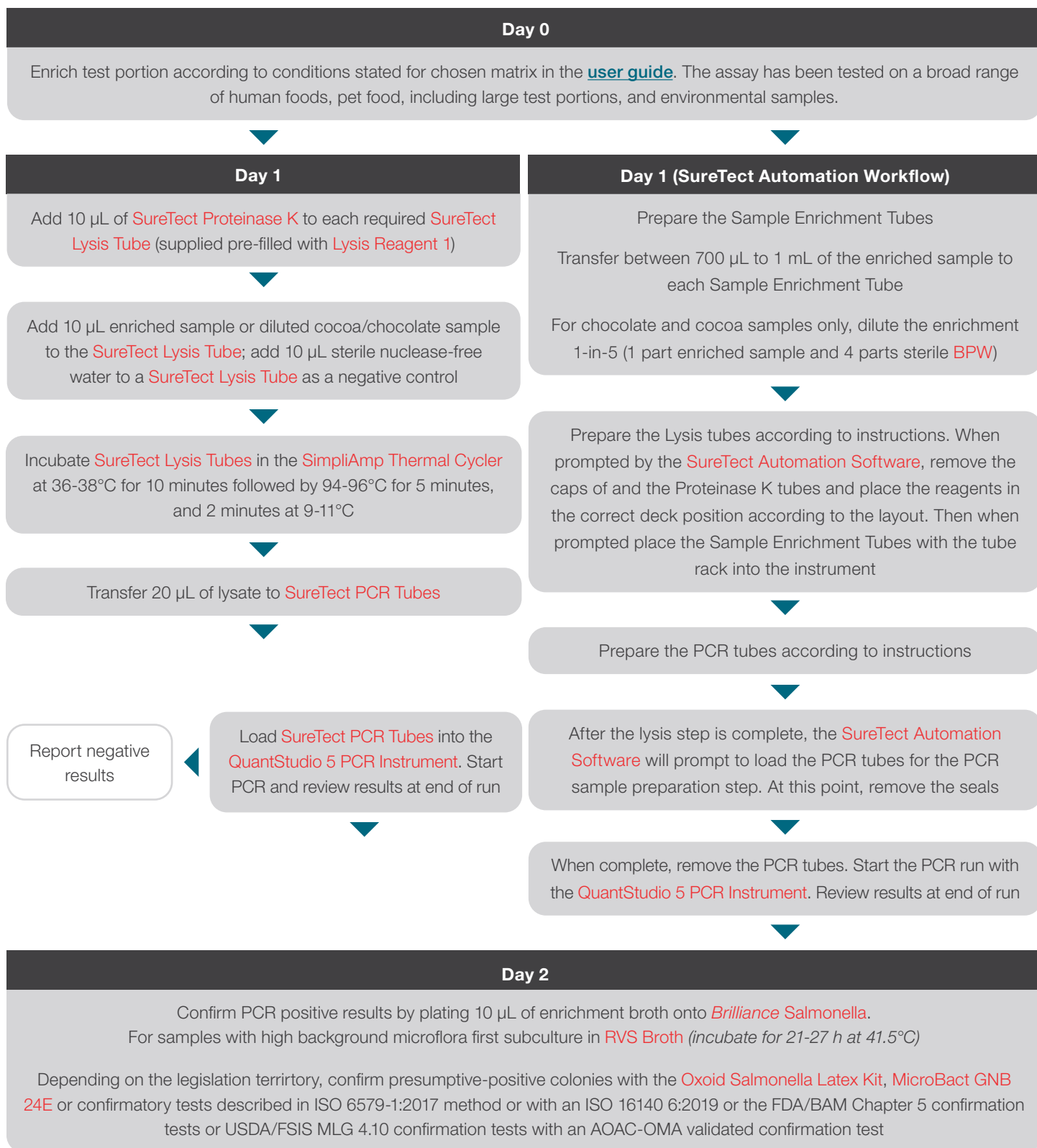


Validation

The assay's workflows have been validated for a broad range of human foods, pet food, including large test portions, and environmental samples by AOAC International and ISO 16140-2:2016 according to NF VALIDATION™ by AFNOR Certification and by MicroVal™ Certification. The assay is also certified for primary production samples by NF Validation™ by AFNOR Certification.

AFNOR Certification validation certificate No. UNI 03/07-11/13 is available in PDF format from the AFNOR website <https://nf-validation.afnor.org/en/food-industry/salmonella-spp/>.

Workflow overview for SureTect Salmonella Species PCR Assay validated according to ISO 16140-part 2:2016 method



Product order information for SureTect Salmonella Species PCR Assay workflow

Product description		Format	Order code	
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water	Buffered Peptone Water (ISO)	500 g, makes 25 L	CM1049B
		Buffered Peptone Water (ISO-meat peptone)	500 g, makes 25 L	CM1211B
	PrecisBlue Supplement		1 vial, for 80 x 25 gm samples	SR0259A
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg	SR0181E
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg	SR0249A
	Vancomycin Supplement	Vancomycin Supplement - freeze-dried	10 vials of 3 mg	SR0186E
		Vancomycin Supplement - freeze-dried	10 vials of 5 mg	SR0247E
	ONE Broth Salmonella	ONE Broth Salmonella Base	500 g, makes 20 L	CM1091B
		ONE Broth Salmonella Supplement	10 vials, each for 225 mL	SR0242E
	Brilliance™ Salmonella Agar	Brilliance™ Salmonella Agar Base	500 g, makes 9.3 L	CM1092B
	Salmonella Agar Selective Supplement	10 vials, each for 500 mL	SR0194E	
RVS Broth		500 g, makes 18.7 L	CM0866B	
Thermo Scientific™ SureTect™ Salmonella species Assay (includes Proteinase K, Lysis Tubes (pre-filled with Lysis Reagent 1), Salmonella spp. PCR Tubes (pre-filled with Salmonella PCR tablets), Thermo Scientific 96-Well Pierceable Seals and PCR Tube caps)		96 tests	A56841	
Thermo Scientific™ Oxoid™ Salmonella Latex Kit		100 tests	DR1108A	
Thermo Scientific™ Microbact™ GNB 24E		80 tests	MB1131A	
Applied Biosystems™ SimpliAmp™ Thermal Cycler (Lysis step)		Instrument	A24811	
Applied Biosystems™ QuantStudio™ 5 Food Safety Real-Time PCR System (includes Thermo Scientific™ RapidFinder™ Analysis Software v3.0 or higher and laptop computer)		Instrument	A36328	
Thermo Scientific™ SureTect™ Automation Platform, one of the following	Automation Platform CHOICE Head	Instrument	A59017	
	Automation Platform Head R 96	Instrument	A66295	
Assurance Service Plan – additional 1-year warranty		Service agreement	SCQS5FSAT	

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Alternative Method:

Thermo Scientific™ SureTect™ *Salmonella* species, Typhimurium and Enteritidis Multiplex PCR Assays Workflow

A rapid method for the enrichment, detection and confirmation of *Salmonella* species, *Salmonella* Typhimurium and *Salmonella* Enteritidis in raw pork and poultry, ready-to-eat and ready-to-reheat pork and poultry, shell eggs, production environment samples, and primary production samples (PPS):

- Validated according to ISO 16140 2:2016 standard
- First validated multiplex PCR assay for simultaneous detection of *Salmonella* species, and *Salmonella* serovars; Typhimurium and Enteritidis
- Designed as a tool specifically for *Salmonella* control programs in pork and poultry production
- Streamlined testing workflow and reduced waiting time for product release or intervention
- Reduced time to results as little as 16 hours compared with up to 5 days for standard culture methods
- Reduced time-to-result: 1 day compared with up to 5 days for the ISO reference method

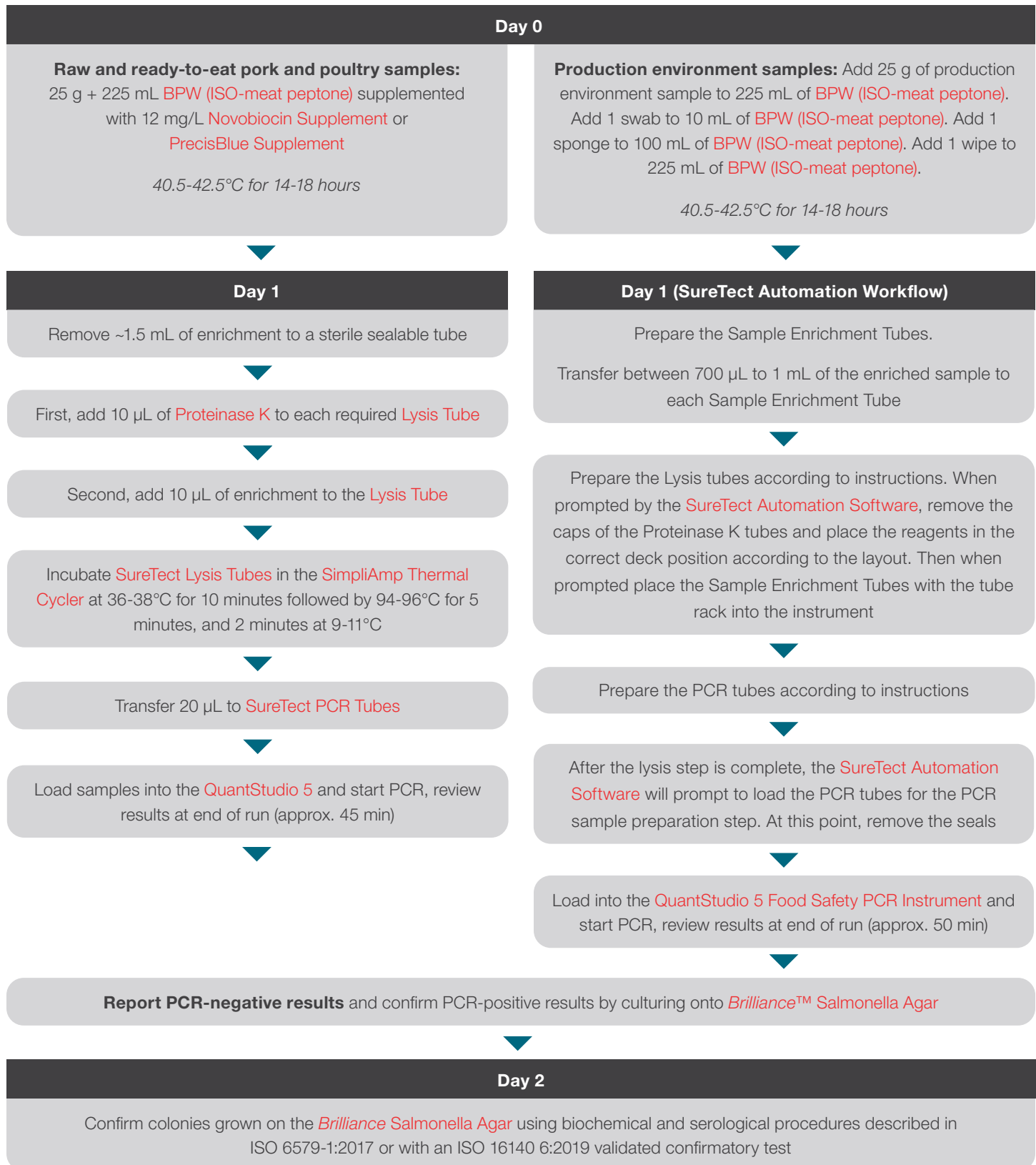


Validation

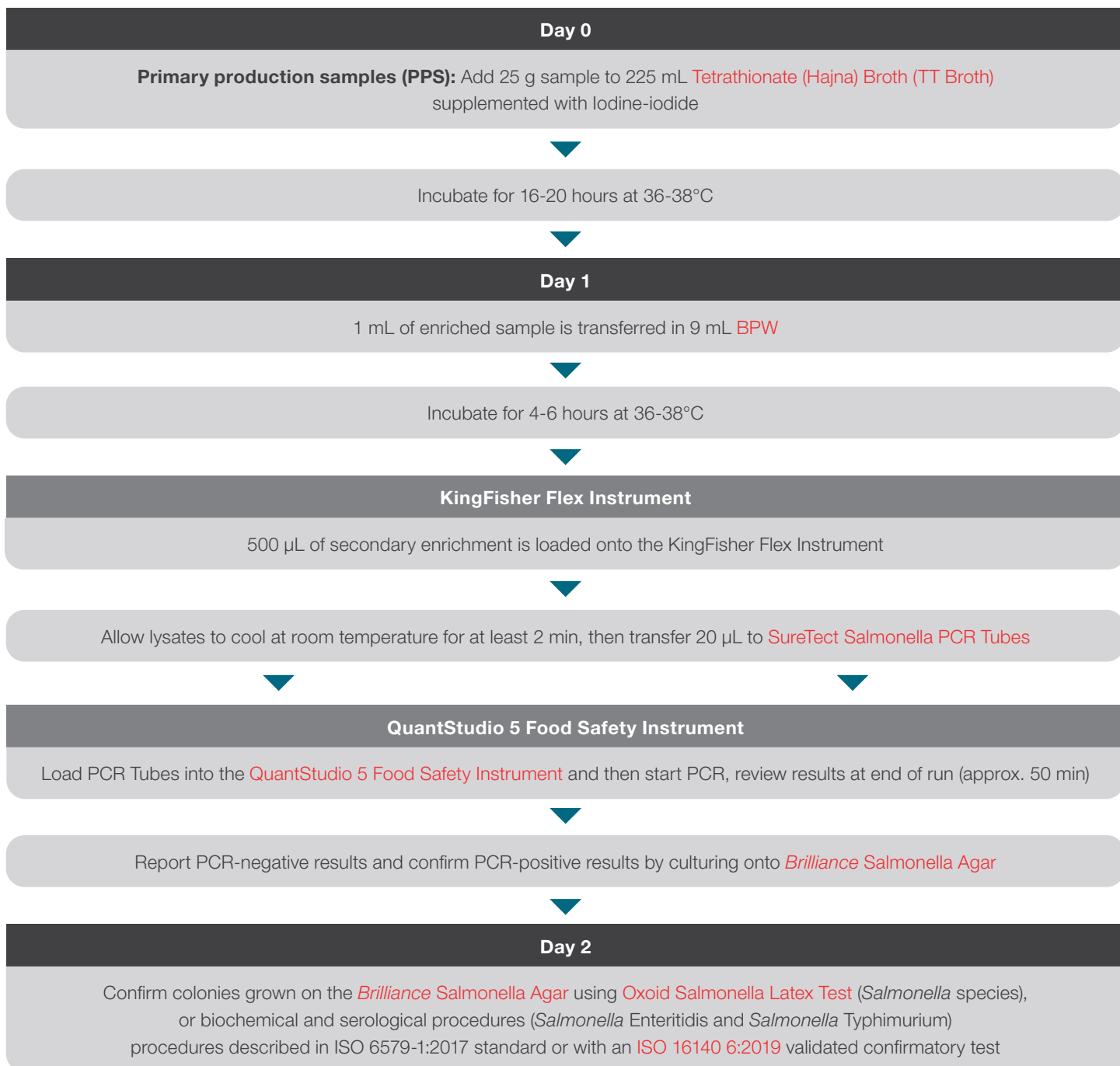
The SureTect Salmonella Multiplex Assay and SureTect Salmonella Multiplex Flex Assay methods have been validated and approved by AFNOR (ISO 16140-2:2016) and AOAC-RI validated on a range of matrices.

NF VALIDATION certificate No. UNI 03/12-01/18 is available in PDF format from the AFNOR website <https://nf-validation.afnor.org/en/food-industry/salmonella-spp/>.

Workflow overview for SureTect Salmonella species, Typhimurium and Enteritidis Multiplex PCR Assay validated according to ISO 16140-part 2:2016 standard



Workflow overview for SureTest Salmonella species, Typhimurium and Enteritidis Multiplex Flex PCR Assay according to ISO 16140 2:2016 standard



Product order information for SureTect Salmonella Multiplex PCR Kit workflows

Product description		Format	Order code
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water – (ISO-Meat Peptone)	500 g, makes 25 L	CM1211B
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg
	PrecisBlue Supplement	1 vial for 80x25 g samples	SR0259A
	TT Broth	500 g, makes 10.9 L	CM0671B
	Brilliance™ Salmonella Agar	Brilliance™ Salmonella Agar Base	500 g, makes 9.3 L
		Brilliance Salmonella Agar Selective Supplement	10 vials, each for 500 mL
	Tryptone Soya Agar	500 g, makes 12.5 L	CM0131B
Thermo Scientific™ SureTect™ Salmonella species, Typhimurium and Enteritidis Multiplex Assay – for use with the SimpliAmp Thermal Cycler (includes Proteinase K, Lysis Tubes (pre-filled with Lysis Reagent 1), Salmonella multiplex PCR Tubes (pre-filled with Salmonella multiplex PCR tablets), 96-Well Pierceable Seals and PCR Tube caps)		96 tests	A33227
Thermo Scientific™ SureTect™ Salmonella species, Typhimurium and Enteritidis Multiplex Flex Assay – for use with KingFisher Flex Purification System (includes Dynabeads™ anti-Salmonella, Proteinase K, Lysis Reagent 1, Salmonella multiplex PCR Tubes (pre-filled with Salmonella multiplex PCR tablets) and PCR Tube caps)		96 tests	A33227KF
Thermo Scientific™ Oxoid™ Salmonella Latex Kit		100 tests	DR1108A
Thermo Scientific™ Remel™ Agglutinating Sera	Salmonella O Factor 4 (Group B)	2 mL vial	R30956901
	Salmonella H (i)	2 mL vial	R30161601
	Salmonella H (1,2)	2 mL vial	R30163301
	Salmonella O Factor 9 (Group D)	2 mL vial	R30957301
Applied Biosystems™ SimpliAmp™ Thermal Cycler (Lysis step)		Instrument	A24811
Applied Biosystems™ QuantStudio™ 5 Food Safety Real-Time PCR System (includes Thermo Scientific™ RapidFinder Analysis Software v3.0 or higher and laptop computer)		Instrument	A36328
Thermo Scientific™ SureTect™ Automation Platform, one of the following	Automation Platform CHOICE Head	Instrument	A59017
	Automation Platform Head R 96	Instrument	A66295
Assurance Service Plan – additional 1-year warranty		Service agreement	SCQS5FSAT

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Alternative Method:

Thermo Scientific™ SureCount™ Salmonella species, Typhimurium and Enteritidis Multiplex PCR Kit workflow

The SureCount Salmonella Multiplex PCR Kit workflow offers a simple, all-in-one solution for *Salmonella* quantification and differentiation of *Salmonella* species, as well as two of the most prevalent serotypes found in meat and poultry matrices: *Salmonella* Typhimurium, and *Salmonella* Enteritidis.

- Quantify three *Salmonella* targets within a single PCR reaction.
- Simple sample preparation provides scalability.
- RapidFinder Analysis Software v3.0 or later provides a quantitative result for all three targets.

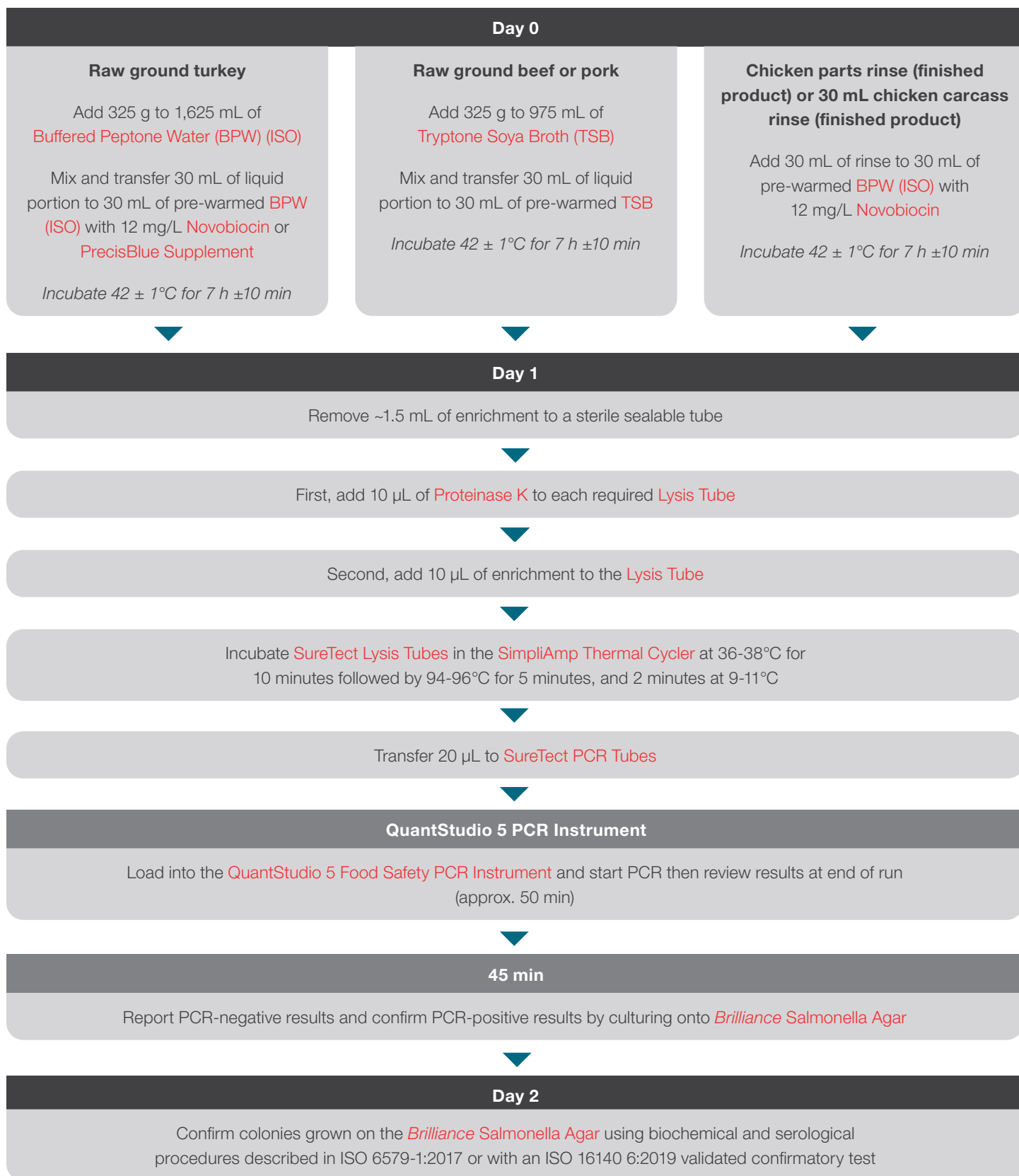


Validation

The SureCount Salmonella species, Typhimurium and Enteritidis Multiplex PCR Kit has been AOAC *Performance Tested Methods*SM certified. According to the AOAC-PTM validation study, the method is able to quantify 1 CFU per tested poultry rinses, raw meat, and poultry samples (chicken parts and carcass rinses, ground beef, ground pork, and ground turkey).

AOAC RI Certificate No. 072302. Available at <https://assets.thermofisher.com/TFS-Assets/MBD/brochures/AOAC-Cert-SureCount-Salmonella-072302-EN.pdf>

Workflow overview for the SureCount Salmonella species, Typhimurium and Enteritidis Multiplex PCR Kit



Product order information for SureTect SureCount Salmonella species, Typhimurium and Enteritidis PCR Kit workflow

Product description		Format	Order code	
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water – (ISO-Meat Peptone)		500 g, makes 25 L	CM1211B
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg	SR0181E
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg	SR0249A
	PrecisBlue Supplement		1 vial for 80x25 g samples	SR0259A
	TSB Broth		500 g, makes 15.2 L	CM0989B
	<i>Brilliance</i> ™ Salmonella Agar	<i>Brilliance</i> ™ Salmonella Agar Base	500 g, makes 9.3 L	CM1092B
Salmonella Agar Selective Supplement		10 vials, each for 500 mL	SR0194E	
Thermo Scientific™ SureCount™ Salmonella species, Typhimurium and Enteritidis Multiplex PCR Kit (includes Proteinase K, Lysis Tubes (pre-filled with Lysis Reagent 1), Salmonella multiplex PCR Tubes (pre-filled with Salmonella multiplex PCR tablets), Lysis Tube caps and PCR Tube caps)		96 tests	A56848	
Applied Biosystems™ SimpliAmp™ Thermal Cycler (Lysis step)		Instrument	A24811	
Applied Biosystems™ QuantStudio™ 5 Food Safety Real-Time PCR System (includes Thermo Scientific™ RapidFinder Analysis Software v3.0 or higher and laptop computer)		Instrument	A36328	
Assurance Service Plan – additional 1-year warranty		Service agreement	SCQS5FSAT	

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Alternative Method:

Thermo Scientific™ SureTect™ Salmonella Infantis PCR Assay workflow

A rapid method for the enrichment, detection, and confirmation of *Salmonella* Infantis in poultry carcass rinses and 375 g raw poultry parts samples.

- Designed specifically for *Salmonella* Infantis control programs in poultry production
- The SureTect Salmonella Infantis PCR Assay has been extensively tested and verified on poultry matrices
- Combine the SureTect Salmonella species Typhimurium and Enteritidis Multiplex PCR Assay with the SureTect Salmonella Infantis PCR Assay to simultaneously detect *Salmonella* spp. and identify the top 3 serotypes in poultry products linked to human illness: *S. Typhimurium*, *S. Enteritidis*, and *S. Infantis*

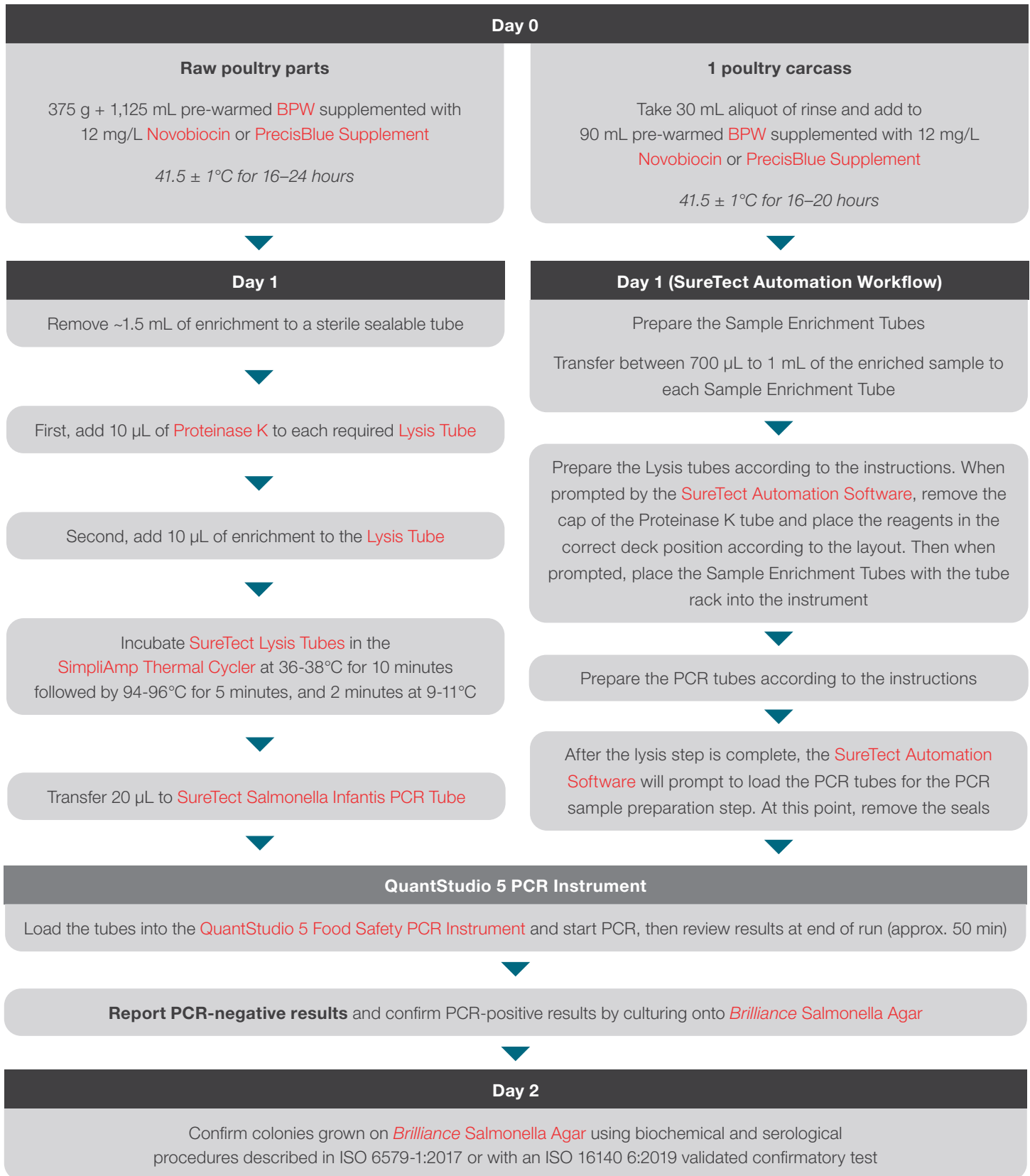


Validation

The SureTect Salmonella Infantis PCR Assay has been validated internally against the FSIS MLG Method Chapter 4.

* CyBio FeliX is a trademark of Analytik Jena GmbH.

Workflow overview for the SureTect Salmonella Infantis PCR Assay



Product order information for SureTect Salmonella Infantis PCR Assay workflow

Product description		Format	Order code	
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water – (ISO-Beef Peptone)		500 g, makes 25 L	CM1211B
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg	SR0181E
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg	SR0249A
	PrecisBlue Supplement		1 vial for 80 x 25 g samples	SR0259A
	Salmonella Agar	Brilliance™ Salmonella Agar Base	500 g, makes 9.3 L	CM1092B
Salmonella Agar Selective Supplement		10 vials, each for 500 mL	SR0194E	
Thermo Scientific™ SureTect™ Salmonella Infantis PCR Assay		96 tests/kit	A56450	
Thermo Scientific™ Oxoid™ Salmonella Latex Kit		100 tests	DR1108A	
Thermo Scientific™ Remel™ Agglutinating Sera	Salmonella O Factor 6, 7 (Group C1)		2 mL vial	R30957101
	Salmonella H (1,5)		2 mL vial	R30163401
	Salmonella H (b,d,E,r)		2 mL vial	R30959801
Applied Biosystems™ SimpliAmp™ Thermal Cycler (Lysis step)		Instrument	A24811	
Applied Biosystems™ QuantStudio™ 5 Food Safety Real-Time PCR System (includes Thermo Scientific™ RapidFinder Analysis Software v3.0 or higher and laptop computer)		Instrument	A36328	
Thermo Scientific™ SureTect™ Automation Platform, one of the following:	Automation Platform CHOICE Head	Instrument	A59017	
	Automation Platform Head R 96	Instrument	A66295	
Assurance Service Plan – additional 1-year warranty		Service agreement	SCQS5FSAT	

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
Please contact your local representative or technical services to find out more.

Alternative Method: Thermo Scientific™ Salmonella Precis™ Method

A quick and easy method for the enrichment, detection and confirmation of *Salmonella* species from food, animal feed primary production samples and environmental samples.

- Validated according to ISO 16140 2:2016 standard against ISO 6579-1:2017
- Simple procedure—no specialized equipment required
- Visible selective enrichment of *Salmonella* testing samples thanks to the inert blue dye of the PrecisBlue Supplement.
- Single overnight enrichment
- Single sample transfer
- Single 24-hour plate incubation
- Quick and convenient confirmation: Salmonella Latex Test or ISO 6579:2017 standard tests
- Reduced time to result: 2 days compared with up to 5 days for standard culture methods
- *Brilliance Salmonella Agar* contains novel Inhibigen™ technology, giving targeted specificity and reduced background flora



Reactions on *Brilliance Salmonella Agar*

	Colony color/appearance		
	Purple	Blue	Colorless
Enzyme targeted by chromogen	<i>Salmonella</i> (including Lactose positive <i>Salmonella</i>)	<i>Kiebsiella</i> , <i>Enterobacter</i> , <i>Serratia</i>	<i>Citrobacter</i> , other bacteria and yeasts
Esterase	+	-/+	-
β-glucosidase	-	+	-

E. coli and other bacteria and yeasts are inhibited by the combination of the Inhibigen and other selective agents in the medium.

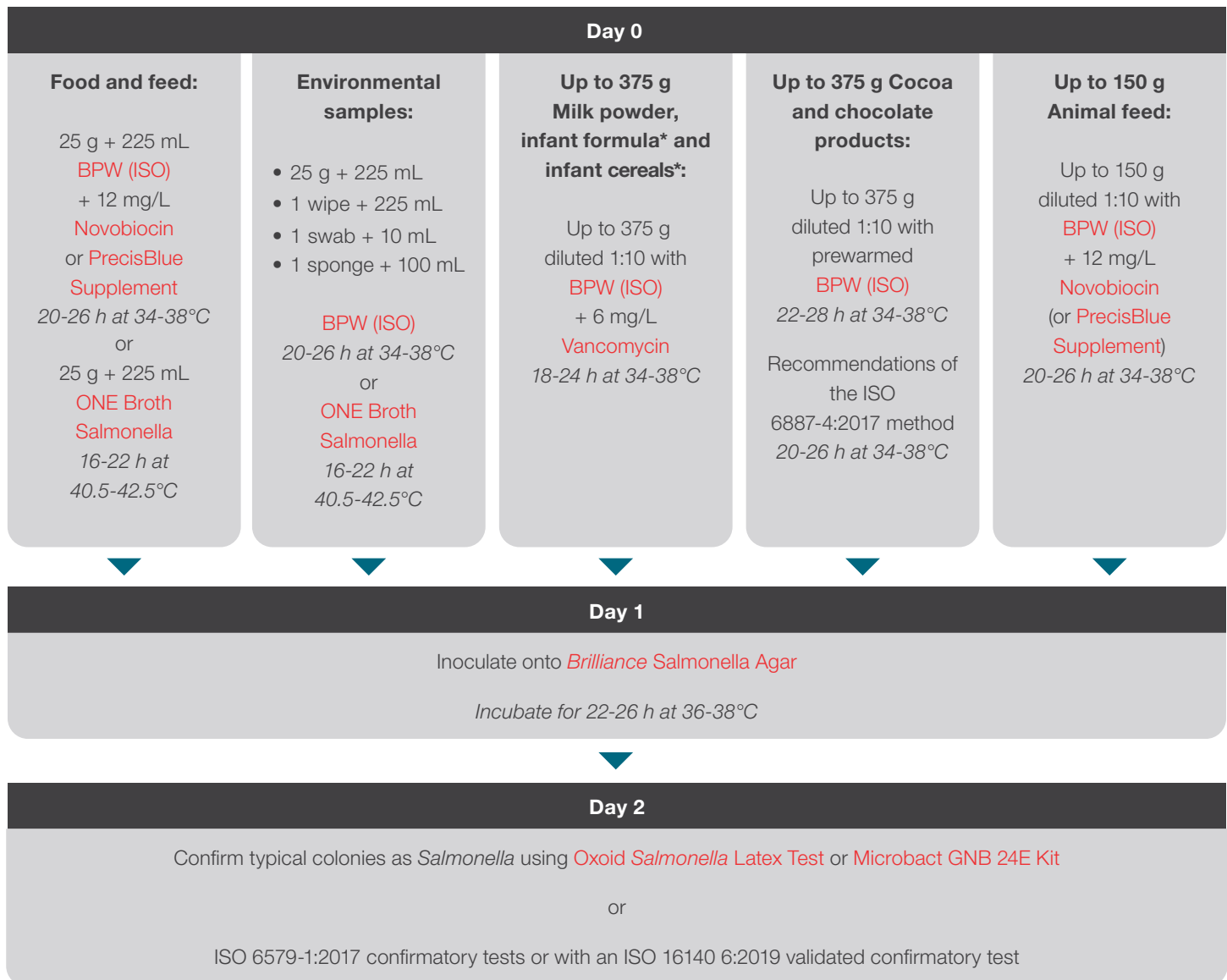
Validation

The Salmonella Precis method has been validated and approved by the AOAC Research Institute (AOAC-RI) and by NF VALIDATION for AFNOR Certification according to ISO 16140-2:2016 standard against the reference method ISO 6579-1:2017 Detection of *Salmonella* spp.

For flexibility, confirmation was validated using both the Oxoid Salmonella Latex Test and the tests outlined in ISO 6579:2017.

AFNOR Certification validation certificate No. UNI 03/06-12/07 is available in PDF format from the AFNOR website <https://nf-validation.afnor.org/en/food-industry/salmonella-spp/>.

Workflow overview for Salmonella Precis Method validated according to NF VALIDATION for AFNOR Certification



*with or without probiotics

Product order information for Salmonella Precip Method

Product description		Format	Order code	
Thermo Scientific™ Oxoid™ Culture Media	Buffered Peptone Water	Buffered Peptone Water (ISO)	500 g, makes 25 L	CM1049B
		Buffered Peptone Water (ISO-meat peptone)	500 g, makes 25 L	CM1211B
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg	SR0181E
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg	SR0249A
	PrecisBlue Supplement		1 vial for 80 x 25 g	SR0259A
	Vancomycin Supplement	Vancomycin Supplement - freeze-dried	10 vials of 3 mg	SR0186E
		Vancomycin Supplement - freeze-dried	10 vials of 5 mg	SR0247E
	ONE Broth Salmonella	ONE Broth Salmonella Base	500 g, makes 20 L	CM1091B
		ONE Broth Salmonella Supplement	10 vials, each for 225 mL	SR0242B
	Brilliance™ Salmonella Agar	Brilliance™ Salmonella Agar Base	500 g, makes 9.3 L	CM1092B
Salmonella Agar Selective Supplement		10 vials, each for 500 mL	SR0194E	
Thermo Scientific™ Oxoid™ Salmonella Latex Kit		100 tests	DR1108A	
Thermo Scientific™ Oxoid™ Microbact GNB 24E Kit		40 tests/kit	MB1131A	

Please note that a range of alternative formats of culture media such as Bagged Enrichment Media and Prepared Plate Media are available.
 Please contact your local representative or technical services to find out more.

 Learn more at thermofisher.com/salmonella-testing-food