

Food testing

Validated detection and identification of *Salmonella* species in 2 days

Thermo Scientific Salmonella Precis Method

Reinventing the standard for culture-based *Salmonella* testing

Salmonellosis remains one of the most common forms of food poisoning, caused by the ingestion of foods contaminated with bacteria of the genus *Salmonella*.

Traditional culture-based methods for detecting *Salmonella* are time consuming, taking up to 4 to 5 days to complete, and require large numbers of sample manipulations and identification steps.

The Thermo Scientific™ *Salmonella* Precis™ Method is the next generation in rapid, culture-based testing and offers a quick and easy method for the enrichment, detection and confirmation of

Salmonella species from food, animal feed, and environmental samples.

The simplified workflow has been expertly designed to overcome sensitivity and specificity issues, without the need to carry out non-standard handling steps, generating results in just two days*.

Thermo Scientific™ Oxoid™ *Brilliance*™ *Salmonella* Agar plates may also be used as part of the ISO 6579-1:2017 horizontal method for the detection of *Salmonella* spp. in food, animal feed, and environmental samples.



Samples are diluted 1-in-10 in BPW and can be used for quality indicator testing prior to addition of a selective supplement.

Samples are incubated overnight in a single, optimized enrichment medium.

A single *Brilliance* *Salmonella* Agar plate is inoculated using a 10 µL loop, before incubating overnight.

Purple-colored colonies are presumptive-positive for *Salmonella* species.

Confirm presumptive-positive colonies with a choice of a 10-minute latex test (Thermo Scientific™ Oxoid™ *Salmonella* Latex Test), PCR test (Thermo Scientific™ SureTect™ *Salmonella* species PCR Assay) or ISO 16140-6 validated method.

Key Benefits:

- Validated according to ISO 16140-2:2016 against the ISO 6579-1:2017 reference method and certified by NF Validation (AFNOR)
- Simple procedure—no specialized equipment required
- Single overnight enrichment
- Single sample transfer
- Single 24-hour plate incubation
- Broths and plates incubated at the same temperature for workflow simplicity
- Quick and convenient confirmation: Oxoid *Salmonella* Latex Test, SureTect *Salmonella* PCR Assay, or ISO 6579-1:2017 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

*When confirming presumptive-positive colonies with the Oxoid *Salmonella* Latex Test.

A rapid, simple, and robust culture-based workflow

The Salmonella Precis Method has been validated and certified by NF Validation (AFNOR) according to ISO 16140-2:2016. The Salmonella Precis method was compared to the ISO 6579-1:2017 reference method for the detection of *Salmonella* spp.

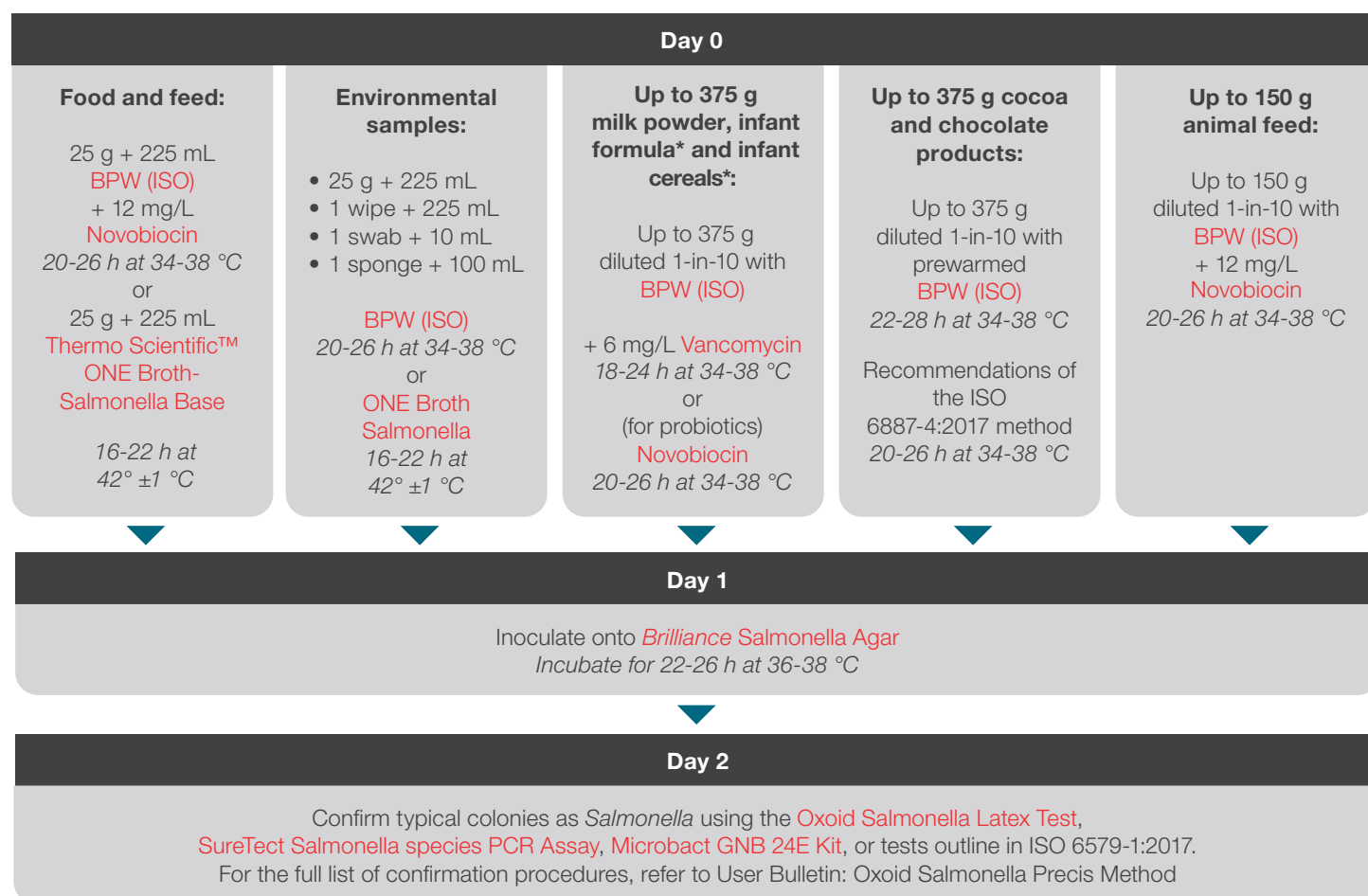
For flexibility, multiple validated confirmation options are available including the rapid Oxoid Salmonella Latex Test, the Suretect

Salmonella species PCR Assay, the Microbact GNB 24E kit, or by tests outlined in ISO 6579-1:2017.

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

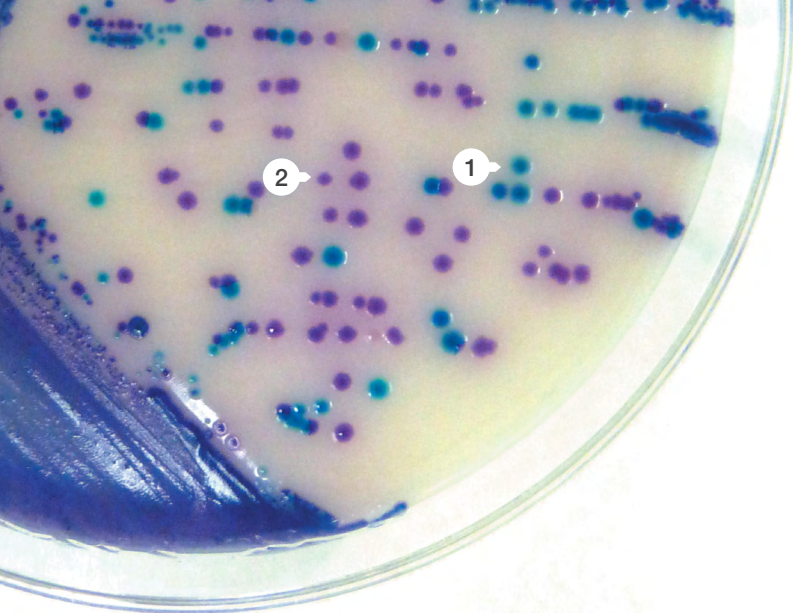


*with or without probiotics

Reactions on Brilliance Salmonella Agar

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

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



Example results – Mixed culture

1. *Klebsiella* colony
2. *Salmonella* colony

Ordering Information

Product description		Format	Cat. No.	
Oxid Culture Media	Buffered Peptone Water	Buffered Peptone Water (ISO)	500 g, makes 25 L	10301103
		Buffered Peptone Water (ISO-meat peptone)	500 g, makes 25 L	CM1211B
	Novobiocin Supplement	Novobiocin Supplement - freeze-dried	10 vials of 10 mg	11912622
		Novobiocin Supplement - liquid (40 mL/vial)	10 vials of 40 mg	17668846
	Vancomycin Supplement	Vancomycin Supplement - freeze-dried	10 vials of 3 mg	13285399
		Vancomycin Supplement - freeze-dried	10 vials of 5 mg	12638797
	ONE Broth Salmonella	ONE Broth Salmonella Base	500 g, makes 20 L	13285919
		ONE Broth Salmonella Supplement	10 vials, each for 225 mL	12996736
	<i>Brilliance</i> Salmonella Agar	<i>Brilliance</i> Salmonella Agar Base	500 g, makes 9.3 L	11934112
		<i>Brilliance</i> Salmonella Agar Selective Supplement	10 vials, each for 500 mL	11404229
Oxid Salmonella Latex Kit		100 tests	10557473	

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.

Visit eu.fishersci.com for more information

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