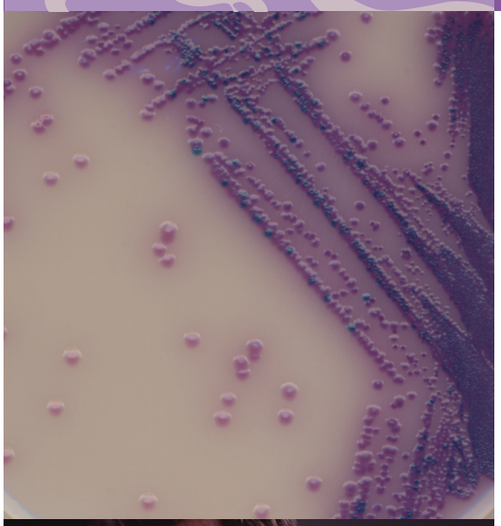
OXOID

Rapid Culture Method

# *Salmonella* Precis



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

- Validated by AFNOR to ISO 16140 standard
- Simple and easy procedure – no specialized equipment required
- Single 18-hour enrichment
- Single sample transfer
- Single 24-hour plate incubation
- Quick and convenient confirmation: Oxoid Salmonella Latex Test or ISO 6579:2002 standard tests
- Reduced time to result: 2 days compared with up to 5 days for standard culture methods

AFNOR Validation

## Introduction

The Oxoid Salmonella Precis™ method combines the benefits of ONE Broth-Salmonella, *Brilliance*™ Salmonella Agar and the Oxoid Salmonella Latex Test to reduce time to result over conventional culture methods.

ONE Broth-Salmonella is a highly nutritious medium for the recovery and growth of salmonellae while inhibiting competing organisms. The growth promoter in the medium allows the recovery of stressed *Salmonella* cells, even when present in very low numbers.

*Brilliance* Salmonella Agar is the first in a new class of chromogenic media to incorporate novel Inhibigen™ technology. This new technology improves recovery of *Salmonella* by reducing background flora. Chromogens aid easy identification and differentiation by producing brightly coloured colonies.

The Oxoid Salmonella Latex Test provides a quick and easy method for confirmation of *Salmonella* species from culture media.

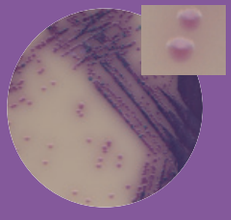
## Protocol for Salmonella Precis Method

**Day 0: Enrichment**

25g or 25mL of sample + 225mL ONE Broth-Salmonella
Incubate for 16–20 hours at 42°C

**Day 1: Plating**

Using a 10µL microbiological loop inoculate a single *Brilliance* Salmonella plate. Incubate for 22–26 hours at 37°C



**Day 2: Results**

If present, select a well isolated purple coloured colony and test using the Oxoid Salmonella Latex Test. Alternatively, confirm purple colonies using standard ISO methods.

Select purple colonies for confirmation

## AFNOR Validation

The Salmonella Precis method has been validated and approved by AFNOR according to ISO 16140 standard against the reference method ISO 6579:2002 standard for the detection of *Salmonella* in food, animal feed and environmental samples.

For flexibility, confirmation was validated using both Oxoid Salmonella Latex Test and the tests outlined in ISO 6579:2002. Alternatively, biochemical panels such as Microbact™ GNB 24E or Remel RapID™ ONE Panel, may be used.

AFNOR validation certificate number **UNI 03/06 – 12/07** (available in PDF format from the AFNOR website www.afnor-validation.com).

## Reactions on *Brilliance* Salmonella Agar

| | **Colony colour** | | |
|---|---|---|---|
| | **Purple** | **Blue** | **Colourless** |
| Enzyme targeted by chromogen | *Salmonella* (including Lactose positive *Salmonella*) | *Klebsiella, Enterobacter, Serratia* | *Citrobacter*, other bacteria and yeasts |
| Esterase | + | -/+ | - |
| ß-glucosidase | - | + | - |
| *E. coli* and other bacteria and yeasts are inhibited by the combination of Inhibigen and other selective agents in the medium. | | | |

| **Enrichment media** | SIZE/FORMAT | ORDER CODE |
|---|---|---|
| ONE Broth-Salmonella in Bottles | 10x225mL | BO1096S* |
| ONE Broth-Salmonella in ReadyBags | 3x3 litres | FR60101* |
| ONE Broth-Salmonella Base | 500g | CM1091B |
| ONE Broth-Salmonella Supplement for 225mL | 10 vials | SR0242E |
| ONE Broth-Salmonella Supplement for 2.25 litres | 10 vials | SR0242B |
| **Plating media** | | |
| *Brilliance* Salmonella (ready to use 90mm plates) | 10 plates | PO5098A* |
| *Brilliance* Salmonella Agar Base | 500g | CM1092B |
| Salmonella Selective Supplement for 500mL | 10 vials | SR0194E |
| **Confirmation** | | |
| Oxoid Salmonella Latex Test | 30 tests | FT0203A |
| Nutrient Agar | 500g | CM0003B |
| Microbact GNB 24E | 40 tests | MB1131A |
| Microbact GNB 24E | 80 tests | MB1074A |
| Remel RapID ONE Panel | 20 panels | R8311006* |
| Triple Sugar Iron Agar | 500g | CM0277B |
| Urea Agar Base | 500g | CM0053B |
| Urea 40% Solution (for 100mL medium) | 10x5mL | SR0020K |
| Lysine Decarboxylation Broth Tablets (each make 5ml) | 100 tablets | CM0308S |
| Spot Indole Reagent (DMACA) | 25mL | R21245* |
| Remel Salmonella O and H Agglutinating Sera various codes - see Product List | | |
| **Quality Control Organisms – Culti-Loops™** | | |
| *Salmonella* Typhimurium ATCC® 14028™† | 5 loops | CL6000* |
| *Staphylococcus aureus* ATCC® 25923™† | 5 loops | CL7010* |
| *Klebsiella pneumoniae* ATCC® 13883™† | 5 loops | CL7037* |
| *Enterococcus faecalis* ATCC® 29212™† | 5 loops | CL7030* |
| *Escherichia coli* ATCC® 25922™† | 5 loops | CL7050* |

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* Check code and availability with your local Oxoid Representative

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