

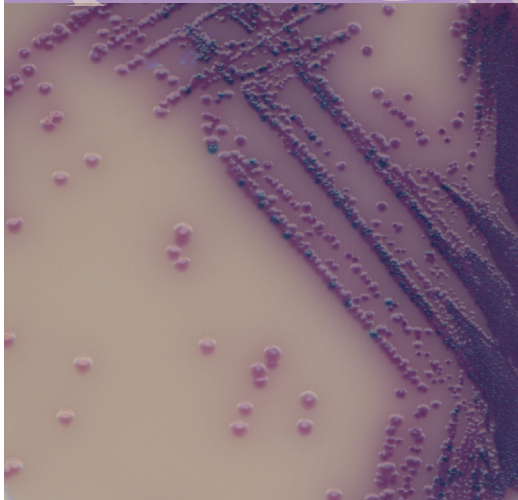


## Rapid Culture Method

# 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 specialised 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



## 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 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.

## 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 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](http://www.afnor-validation.com)).

## Reactions on Brilliance Salmonella Agar

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

Enrichment	SIZE/FORMAT	ORDER CODE
ONE Broth-Salmonella in Bottles	10 x 225ml	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

<i>Brilliance</i> ™ Salmonella (ready to use 90mm plates)	10 plates	PO5098A*
<i>Brilliance</i> ™ Salmonella Agar Base	500g	CM1092B
Salmonella Selective Supplement for 500ml	10 vials	SR0194E

## Confirmation

Salmonella Latex Test	100 tests	FT0203A
Nutrient Agar	500g	CM0003B
Microbact GNB 24E	40 tests	MB1131A
Microbact GNB 24E	80 tests	MB1074A
RapID ONE Panel	20 panels	R8311006*
Triple Sugar Iron Agar	500g	CM0277B
Urea Agar Base	500g	CM0053B
Urea 40% Solution (for 100ml medium)	10 x 5ml	SR0020K
Lysine Decarboxylation Broth Tablets (each make 5ml)	100 tablets	CM0308S
Spot Indole Reagent (DMACA)	25ml	R21245*
Salmonella O and H Agglutinating Sera various codes - see Product List		

## Quality Control Organisms

<i>Salmonella</i> Typhimurium ATCC® 14028™†	10 loops	C6000L
<i>Staphylococcus aureus</i> ATCC® 25923™†	10 loops	C7010L
<i>Klebsiella pneumoniae</i> ATCC® 13883™†	10 loops	C7037L
<i>Enterococcus faecalis</i> ATCC® 29212™†	10 loops	C7030L
<i>Escherichia coli</i> ATCC® 25922™†	10 loops	C7050L

\* Check code and availability with your local Oxoid Representative

For more information about these products, please visit [www.oxoid.com](http://www.oxoid.com)

## Protocol for Salmonella Precis Method

### Day 0: Enrichment

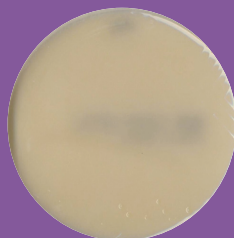
25g or 25ml of sample  
+  
225ml ONE Broth-Salmonella



Incubate for  
16-24 hours at 42°C

### Day 1: Plating

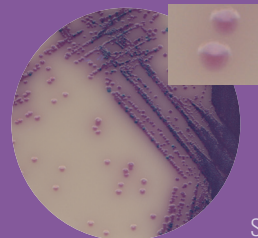
Using a 10µl microbiological  
loop inoculate a single *Brilliance*  
Salmonella plate



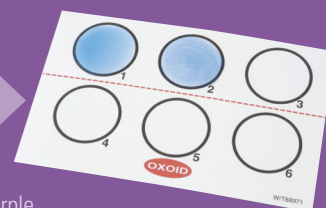
Incubate for  
22-26 hours at 37°C

### 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



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