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).

Reactions on Brilliance Salmonella Agar

<table>
<thead>
<tr>
<th>Enzyme targeted by chromogen</th>
<th>Colony colour</th>
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</thead>
<tbody>
<tr>
<td>E. coli and other bacteria and yeasts</td>
<td>Inhibited by the combination of Inhibigen and other selective agents in the medium.</td>
</tr>
<tr>
<td>Salmonella (including Lactose positive Salmonella)</td>
<td>Purple</td>
</tr>
<tr>
<td>Klebsiella, Enterobacter, Serratia</td>
<td>Blue</td>
</tr>
<tr>
<td>Citrobacter, other bacteria and yeasts</td>
<td>Colourless</td>
</tr>
<tr>
<td>Esterase</td>
<td>+</td>
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<tr>
<td>ß-glucosidase</td>
<td>-/+</td>
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</tbody>
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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.