

Product Specification Sheet

XLD Agar / Brilliance™ Salmonella Biplate

Intended Usage: Selective media for the isolation and presumptive identification of *Salmonella* species.

For professional use only.

PO5248E	
Version: 12	Revision Date: 08 August 2023

Thermo Scientific™ XLD Agar / Brilliance™ Salmonella Biplate

Form of Product	Poured plate
Storage	2 – 12°C
Filling weight	14 g ± 5 %
Packaging	10 biplates wrapped in film
pH	
XLD agar	7.4 ± 0.2
Brilliance™ Salmonella	7.4 ± 0.2
Appearance	
XLD agar	Vermillion, transparent
Brilliance™ Salmonella	Cream to pink tinged, opaque
Shelf life	12 weeks
Intended Usage	Selective media for the isolation and presumptive identification of <i>Salmonella</i> species. For professional use only.
Technique	Depends on the different methods. For information see Specification Sheet for Thermo Scientific™ Oxoid™ CM0469 and CM1092 / SR0194.

Typical formulation* Side 1 – XLD agar	g/l
Yeast extract	3.0
L-Lysine hydrochloride	5.0
Xylose	3.75
Lactose	7.5
Sucrose	7.5
Sodium desoxycholate	1.0
Sodium chloride	5.0
Sodium thiosulphate	6.8
Ferric ammonium sulphate	0.8
Phenol red	0.08
Agar	12.5

*Adjusted as required to meet performance standards.

Typical formulation* Side 2 - <i>Brilliance</i> ™ Salmonella	g/l
Salmonella Inhibigen™ mix	14.0
Chromogenic mix	25.0
Cefsulodin	0.012
Novobiocin	0.005
Agar	15.0

*Adjusted as required to meet performance standards.

Quality Control

1. Control for general characteristics, labelling and printing.
2. Contamination check
 ≥ 72 h @ 20 – 25 °C, aerobic
 ≥ 72 h @ 30 – 35 °C, aerobic
3. Microbiological control

Side 1 – XLD

Positive Controls	Growth
Inoculum $10^3 - 10^4$ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Salmonella</i> Typhimurium ATCC® 14028™ (WDCM 00031)	Good growth, red colonies with black centre.
<i>Salmonella</i> Enteritidis ATCC® 13076™ (WDCM 00030)	Good growth, red colonies with black centre.
<i>Shigella flexneri</i> ATCC 12022™ (WDCM 00126)	Good growth, red colonies.
<i>Shigella sonnei</i> ATCC 25931™ (WDCM 00127)	Good growth, red colonies.

Negative Controls	Growth
Inoculum $10^3 - 10^4$ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Escherichia coli</i> ATCC® 25922™ (WDCM 00013)	Inhibited growth.
Inoculum $\geq 10^4$ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Enterococcus faecalis</i> ATCC® 29212™ (WDCM 00087)	No growth

Side 2 - Brilliance™ Salmonella

Positive Control	Growth
Inoculum $10^3 - 10^4$ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Salmonella</i> Typhimurium ATCC® 14028™	Good growth, purple / pink colonies
<i>Salmonella</i> Arizonae ATCC® 13314™	Good growth, purple / pink colonies

Negative Control	Growth
Inoculum $\geq 10^3$ cfu, qualitative, control medium COL+SB Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic	
<i>Escherichia coli</i> ATCC® 25922™	No growth or 1-2mm cream colonies.

The formulation of XLD Agar conforms to ISO 6579.

Note

XLD Agar

A crystalline precipitate may appear in this medium. This does not affect the microbiological performance.

Brilliance™ Salmonella

This medium is not recommended for the isolation of *Salmonella* Typhi and *Salmonella* Paratyphi. For these strains please refer to existing guidelines.

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