

Product Specification Sheet

*Muller Kauffmann
Tetrathionate Novobiocin Enrichment Broth*

Intended Usage: A medium for the selective enrichment of *Salmonella* species.

For professional use only.

TV5065E	
Version: 13	Revision Date: 25 May 2020

Thermo Scientific™ Muller Kauffmann Tetrathionate Novobiocin Enrichment Broth

Form of Product	Poured tube
Storage	2 – 12°C, dark
Filling weight	9.0 – 11.0 g
Packaging	50 tubes in a box
End of manufacturing pH	8.0 ± 0.2
Appearance	Light green, opaque
Shelf life	12 weeks
Intended Usage	A medium for the selective enrichment of <i>Salmonella</i> species. For professional use only.
Technique	Depends on the different methods. For information see Specification Sheet for Thermo Scientific™ Oxoid™ CM1048.

Typical formulation*	g/l
Meat extract	4.3
Enzymatic digest of casein	8.6
Sodium chloride	2.6
Calcium carbonate	38.7
Sodium thiosulphate (anhydrous)	30.5
Ox bile	4.78
Brilliant green	0.0096
Iodine	4.0
Potassium iodide	5.0
Novobiocin	0.04

*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 subculture of one tube onto TSA for ≥ 18 h @ 30 \pm 1°C
 ≥ 72 h @ 30 – 35 °C, aerobic subculture of one tube onto TSA for ≥ 18 h @ 30 \pm 1°C
3. Microbiological control

Positive Control	Growth
Mixed cultures	
Inoculum 10-100 colony forming units (cfu) mixed with $\geq 10^4$ cfu, quantitative Incubation conditions: 21 – 27 h @ 37 \pm 1°C, aerobic, subculture onto XLD medium	
<i>Salmonella</i> Typhimurium ATCC® 14028™ (WDCM 00031) (10-100 cfu/ml)	>10 characteristic colonies on XLD Agar.
+ <i>Escherichia coli</i> ATCC® 25922™ (WDCM 00013) ($\geq 10^4$ cfu/ml)	No growth on XLD Agar.
+ <i>Pseudomonas aeruginosa</i> ATCC® 27853™ (WDCM 00025) ($\geq 10^4$ cfu/ml)	No growth on XLD Agar.

Negative Controls	Growth
Pure cultures	
Inoculum $\geq 10^4$ cfu, quantitative Incubation conditions: 21 – 27 h @ 37 \pm 1°C, aerobic, subculture onto TSA medium	
<i>Enterococcus faecalis</i> ATCC® 29212™ (WDCM 00087)	Complete inhibition (≤ 10 cfu).
<i>Escherichia coli</i> ATCC® 25922™ (WDCM 00013)	Partial inhibition (≤ 100 cfu).

Tested in accordance with ISO 11133.

The formulation of this medium conforms to ISO 6579.

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