

# Product Specification Sheet

## *Chromogenic Coliform Agar (ISO)*

Intended Usage: A chromogenic medium for the detection and enumeration of *Escherichia coli* and coliforms in water samples.

For professional use only.

PO5318A	
Version: 09	Revision Date: January 2025

**Thermo Scientific™ Chromogenic Coliform Agar (ISO)**

Form of Product	Poured plate
Storage	2– 12°C, dark
Filling weight	17 g ± 5 %
Packaging	10 plates wrapped in film
pH	6.8 ± 0.2
Appearance	Light ivory, transparent
Shelf life	8 weeks
Intended Usage	A chromogenic medium for the detection and enumeration of <i>Escherichia coli</i> and coliforms in water samples. For professional use only.
Technique	Depends on the different methods. For information see CM1205 and ISO 9308-1.

Typical formulation*	g/l
Casein peptone	1.0
Yeast extract	2.0
Sodium chloride	5.0
Sodium dihydrogen phosphate x 2H <sub>2</sub> O	2.2
Di-sodium hydrogen phosphate	2.7
Sodium pyruvate	1.0
Sorbitol	1.0
Tryptophane	1.0
Tergitol™ 7	0.15
6-Chloro-3-indoxyl-β-D-galactopyranoside	0.2
5-Bromo-4-chloro-3-indoxyl-β-D-glucuronic acid	0.1
Isopropyl-β-D-thiogalactopyranoside (IPTG)	0.1
Agar	12.5

\*Adjusted as required to meet performance standards.

## Quality Control

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

Positive Controls	Growth
<b>Inoculum 50 – 120 colony forming units (cfu), quantitative</b> <b>Incubation conditions: 18 – 24 h @ 36 ± 2°C, aerobic</b> <b>Strains tested by membrane filtration</b>	
<i>Escherichia coli</i> ATCC® 8739™ (WDCM 00012)	Dark blue to violet colonies.
<i>Enterobacter aerogenes</i> ATCC® 13048™ (WDCM 00175)	Pink to red colonies.
Colony counts shall be $\geq 70\%$ of the control medium TSA	

Specificity Control	Growth
<b>Inoculum 10<sup>3</sup> – 10<sup>4</sup> cfu, qualitative, control medium COL+SB</b> <b>Incubation conditions: 18 – 24 h @ 36 ± 2°C, aerobic</b> <b>Strain tested by membrane filtration</b>	
<i>Pseudomonas aeruginosa</i> ATCC® 10145™ (WDCM 00024)	Good growth, colourless colonies.

Negative Control	Growth
<b>Inoculum 10<sup>4</sup> – 10<sup>5</sup> cfu, qualitative control medium COL+SB</b> <b>Incubation conditions: 18 – 24 h @ 36 ± 2°C, aerobic</b> <b>Strain tested by membrane filtration</b>	
<i>Enterococcus faecalis</i> ATCC® 19433™ (WDCM 00009)	Total inhibition.

Tested in accordance with ISO 11133 and ISO 9308-1  
 Formulation compliant with ISO 9308-1

Tested in accordance with the methods described in ISO 7704:2023

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