

Product Name	TBX Agar (Tryptone Bile X-glucuronide Agar)
Catalogue Number	AS-1427
LOT Number	TBX2601-01
Net Weight	100 g
Manufacturing Date	January 2026
Expiry Date	September 2029
Manufacturer	AuSaMicS Pty Ltd, 31 Longview CT, Thomastown VIC 3074, Australia
Intended Use	For laboratory and research use only

1. Product Description

TBX Agar is a selective chromogenic dehydrated culture medium for the detection and enumeration of Escherichia coli in foods, animal feeds, and water samples. Detection is based on beta-glucuronidase (GUD) enzymatic activity, producing characteristic blue-green colonies. Compliant with ISO 16649.

2. Composition (per litre of prepared medium)

Component	Function	Amount (g/L)
Peptones (Tryptone)	Nitrogen and nutrient source	20.0
Bile Salts No. 1	Selective inhibitor — Gram-positive suppression	1.5
X-beta-D-glucuronide (5-bromo-4-chloro-3-indolyl-beta-D-glucuronide)	Chromogenic substrate for beta-glucuronidase	0.075
Agar	Solidifying agent	15.0
Final pH at 25°C	—	7.2 ± 0.2
Suspend	—	36.6 g/L

3. Physicochemical Analysis

Test Parameter	Specification	Result
Appearance (powder)	Beige to cream, free-flowing powder	Conforms
Appearance (prepared)	Light amber, clear to slightly opalescent gel	Conforms
pH (prepared, 25°C)	7.2 ± 0.2	7.2
Moisture content (powder)	≤ 6%	Conforms
Gel consistency at 44°C	Firm gel	Conforms
Solubility	Fully dispersible in water upon heating	Conforms

4. Microbiological Performance (Quality Control)

Test Organism	ATCC Strain	Inoculum (CFU)	Expected Result	QC Result
Escherichia coli	ATCC 25922	≤ 100	Blue-green colonies; good growth (≥70% recovery)	Conforms
Escherichia coli O157:H7	ATCC 35150	≤ 100	Colourless colonies (GUD-negative)	Conforms
Klebsiella pneumoniae	ATCC 13883	≤ 100	Colourless or inhibited colonies	Conforms
Enterococcus faecalis	ATCC 29212	≤ 100	Inhibited; no growth	Conforms
Staphylococcus aureus	ATCC 25923	≤ 100	Inhibited; no growth	Conforms

5. Storage Conditions

- Store at 15–25°C in a dry location, away from heat, light, and moisture
- Keep container tightly sealed when not in use
- Expiry date stated on label — refer to label for batch-specific details

6. Regulatory & Standards Compliance

Standard / Regulation	Detail
ISO 16649-2:2001	Enumeration of beta-glucuronidase-positive E. coli — horizontal method
HS Code	3821.00.00 — Prepared culture media for development of micro-organisms
GHS / Australian WHS	Not classified as hazardous under Safe Work Australia WHS Regulations

DISCLAIMER: This Certificate of Analysis relates solely to the batch identified above. AuSaMics Pty Ltd warrants that this product conforms to the specifications stated herein at the time of manufacture and dispatch. Results obtained during use are subject to laboratory conditions beyond the manufacturer's control. This product is supplied for laboratory and research purposes only. AuSaMics Pty Ltd accepts no liability for use outside its intended laboratory application.

Authorised by:

Hassan Salimi — Founder & Technical Director, AuSaMics Pty Ltd

Signature: _____ Date: _____