TM4388 TBX MEDIUM 250ML

FORMULA*

* Formulation may be adjusted and/ or supplemented to meet performance criteria

Tryptone	20.0	gm per litre
Bile Salts No.3	1.5	
X- Glucuronide	0.075	
Agar	15.0	
pH^	7.2 ± 0.2	

(^ at time of manufacture)

DESCRIPTION

Tryptone Bile Glucuronide (TBX) Medium is based on Tryptone Bile Agar, which was originally formulated to improve on earlier methods used to detect ***E. coli*** in foods in terms of speed, reliability, better recovery from frozen samples and the detection of poor lactose-fermenters(1).

This medium is described in Standards methods for the examination of foods and waters (2, 3, 4).

QUALITY CONTROL

Organisms:

E. coli	WDCM 00202 (NCTC 13216)
E. coli	WDCM 00013 (ATCC®25922™)
E. faecalis	WDCM 00087 (ATCC®29212™)
P. aeruginosa	WDCM 00025 (ATCC®27853™)
C. freundii	WDCM 00006 (ATCC®43864™)

Inoculum:
As described in TFS MBD QSP1105, inoculate the specified test organism using 50-150cfu (for quantitative measure), or working culture B ($\leq 10^2$ cfu) (for qualitative measure); and non-target organism using working culture A ($\geq 10^4$ cfu).
Control plates are inoculated in parallel for the quantitative recovery calculations.

Incubation:
18-24 hours / 44°C ± 2°C / aerobic.

Expected Results:

E. coli WDCM 00202	≥50% recovery, white/blue colonies.
E. coli WDCM 00013	≥50% recovery, blue/green colonies.
E. faecalis	inhibited
P. aeruginosa	growth, beige/green colonies
C. freundii	growth, beige/green colonies

Also Checked & Recorded

1. Batch number
2. Colour
3. Gel strength
4. pH
5. Microbial Load
6. Correctly Labelled

STORAGE

A shelf life of 6 months from date of manufacture applies, when stored at 2°- 8°C, unopened in its original packaging, and away from direct light.

REFERENCES

1. Bridson E. Y. 'The Oxoid Manual' 9th Edition 2006.
2. National Infection Service, PHE Microbiology Services. Enumeration of β-glucuronidase positive *Escherichia coli* – most probable number technique. FNES28 (F22). 2018. Public Health England, London.
3. PHE Microbiology Services. Enumeration of β-glucuronidase positive *Escherichia coli:* pour plate method. FNES3 (F8). 2014. Public Health England, London.
4. AS 5013.19.1 (ISO 16649-1). *Method 19.1: Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of ß-glucuronidase-positive Escherichia coli - Colony-count technique at 44°C using membranes and 5-bromo-4-chloro-3-indolylß-D-glucuronide.* Standards Australia, Sydney.
5. *Guidelines for Assuring Quality of Food & Water Microbiological Culture Media*. Current edition. Culture Media Special Interest Group, Australian Society for Microbiology, Inc.

WDCM is the World Data Centre for Microorganisms. See http://refs.wdcm.org/home.htm for more information.

ATCC is the American Type Culture Collection. Trade name and catalogue numbers are trademarks of the ATCC. www.atcc.org.

Inoculum levels as described in QSP1105 are in accordance with the ASM Guidelines and with AS5140/ ISO11133.

Expected results are in accordance with AS5140/ISO11133.

Shelflife determination is in alignment with the described parameters of AS5140/ ISO11133.

Dispose of all microbiological media –used or expired – in accordance with Australian Standard AS2243.3.

Do NOT microwave to remelt. See http://www.oxoid.com/UK/blue/techsupport/its.asp?itsp=faq&faq=tsfaq016&cat=culture+media%2C+supplements+and+raw+materials&lang=EN&c=UK

Do NOT melt more than once.

Remelting agars should be in accordance with section 4.5.1 of AS5140/ ISO11133