PP2157 TRYPTONE SOYA AGAR

FORMULA*

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

Tryptone	15.0	gm per litre
Soya Peptone	5.0	
Sodium Chloride	5.0	
Agar	15.0	
pH^	7.3 ± 0.2	

(^ at time of manufacture)

DESCRIPTION

Tryptone soya is a general purpose agar medium containing 2 peptones, which will support the growth of a wide variety of organisms (1).

This medium is described in Standards methods as a control medium for the quality control of media used in the examination of foods and waters (2).

QUALITY CONTROL

Organisms:

B. cereus	WDCM 00001 (ATCC®11778™)
B. subtilis	WDCM 00003 (ATCC®6633™)
E. coli	WDCM 00012 (ATCC®8739™)
E. coli	WDCM 00090 (ATCC®11775™)
P. aeruginosa	WDCM 00024 (ATCC®10145™)
L. monocytogenes	WDCM 00021 (NCTC 10527)
S. aureus	WDCM 00034 (ATCC®25923™)
E. faecalis	WDCM 00087 (ATCC®29212™)
A. brasiliensis	WDCM 00053 (ATCC®16404™)

Microbial Load Evaluation:
Sample size and acceptance criteria determined in accordance with ASM Guidelines (3).
Incubated at 30°C and at 23°C (concurrently) for 7 days.

Inoculum:
As described in TFS MBD QSP1105, inoculate the specified test organism using 50-150cfu.
Control plates are inoculated in parallel for the quantitative recovery calculations.

Incubation:
18-24 hours/ 35°C ± 2°C / aerobic, plus 5 days/ 27°C ± 2°C / aerobic for *Aspergillus* .

Expected Results:

B. cereus	≥70% recovery, cream colonies
B. subtilis	≥70% recovery, cream colonies
E. coli WDCM 00012	≥70% recovery, cream colonies
E. coli WDCM 00090	≥70% recovery, cream colonies
P. aeruginosa	≥70% recovery, cream/green colonies
L. monocytogenes	≥70% recovery, cream colonies
S. aureus	≥70% recovery, cream colonies
E. faecalis	≥70% recovery, cream colonies
A. brasiliensis	≥70% recovery, black 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 12 weeks 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. AS5140:2017 (ISO 11133:2014 MOD). *Microbiology of food, animal feed and water—Preparation, production, storage and performance testing of culture media*. Standards Australia, Sydney.
3. *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.

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