ALLIANCE BIO EXPERTISE

Reference: TUWR3002 **A.B.E. - Technical Data Sheet**

Product: # Tryptone Soy Agar (TSA) (Eur. Ph.)

Specification

General purpose solid medium containing animal and plant peptone according to Pharmacopoeial Harmonised Method and ISO Standards.

Presentation

	Packaging Details	Shelf Life	Storage
20 Tubes / Slant Tube 16 x 113 mm with: 6,2 ± 0.2 ml	1 box with 20 tubes, 16x113 mm glass tubes, ink labelled and metal cap.	12 months	8-25 ºC

Composition

Composition (g/l):

Peptone from casein	15.00
Soya peptone	5.00
Sodium chloride	5.00
Agar	15.00

Description /Technique

Description

TSA is a widely used medium containing two peptones which support the growth of a wide variety of organisms, even that of very fastidious ones such as Neisseria, Listeria, Brucella, etc. It is frequently used for routine diagnostic purposes due to its reliability and its easily reproducible results.

Technique

This medium can be inoculated directly or after enrichment broth.
Spread the tube by streaking methodology.
The inoculated tubes are incubated at 30-35 ° C for 24-72 h (bacteria) and 3-5 days for fungi (yeast & molds). Examined daily.
(Incubation times greater then those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications).
Each laboratory must evaluate the results according to their specifications.

Precautions

For in vitro diagnostic use. Do not reuse. For professional use only.
Do not use the product if it shows evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

Quality control

Physical/Chemical control

Color : Straw-coloured yellow pH: 7.3 ± 0.2 at 25ºC

Microbiological control

Growth Promotion Test 50-100 CFU according to harmonized Pharmacopoeia monographs (EP) and test methods & ISO 11133:2014/A1:2018
Isolation by loop spreading

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35-37 ºC. Read after 18-24 h to 72 h for bacteria and 3-5 days for fungi.

Microorganism	Growth
Escherichia coli ATCC® 8739, WDCM 00012	Good (≥70%)
Staphylococcus aureus ATCC® 6538, WDCM 00032	Good (≥70%)
Bacillus subtilis ATCC® 6633, WDCM 00003	Good (≥70%)
Candida albicans ATCC® 10231, WDCM 00054	Good (≥70%)
Ps. aeruginosa ATCC® 9027, WDCM 00026	Good (≥70%)
Salmonella typhimurium ATCC® 14028, WDCM 00031	Good (≥70%)
Aspergillus brasiliensis ATCC® 16404, WDCM 00053	Good (≥70%)
L. monocytogenes ATCC® 13932, WDCM 00021	Good (≥70%)
Bacillus cereus ATCC® 11778, WDCM 00001	Good (≥70%)
Enterococcus faecalis ATCC® 29212, WDCM 00087	Good (≥70%)
Clostridium perfringens ATCC® 13124, WDCM 00007, NCTC® 8237	Good (≥70%)
Clostridium sporogenes ATCC® 19404, WDCM 00008	Good (≥70%)
Stph. aureus ATCC® 25923, WDCM 00034	Good (≥70%)
Escherichia coli ATCC® 11775, WDCM 00090	Good (≥70%)

Sterility control

Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

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