

TECHNICAL DATA SHEET

Article No. 9762

Tryptic Soy Agar (TSA) Ph. Eur., prepared plates

SPECIFICATION

Prepared plates, 90 mm. General purpose solid medium containing animal and plant peptone according to Pharmacopoeial Harmonised Method and ISO Standards.

Color: straw-colored yellow pH: 7.3 ±0.2 at 25 °C

COMPOSITION IN G/L

| Casein peptone | 15.00 |
|-----------------|-------|
| Soy peptone | 5.00 |
| Sodium chloride | 5.00 |
| Agar | 15.00 |

PACKAGING DETAILS

9762-20PLATES20 prepared plates 90 mmContent:21 ±2 mlPackaging unit:1 box with 2 packs of 10 plates/pack. Single cellophane wrapping.

9762-120PLATES120 prepared plates 90 mmContent:21 ±2 mlPackaging unit:1 box wit

21 ±2 ml 1 box with 12 packs of 10 plates/pack. Single cellophane wrapping.

GUIDELINES

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. Classical medium for microbiological examination of non-sterile products according to Pharmacopoeial Harmonised Methods.



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Technique:

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

MICROBIOLOGICAL CONTROL

Growth Promotion Test 50-100 CFU acc. to harmonised pharmacopoeial monographs and test methods & ISO 11133:2014/A1:2018.

Inoculate: 50-100 CFU (productivity) acc. to harmonised Eur. Pharmacopoeia and ISO 11133 standard.

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

Aerobiosis. Incubation at 30-35 °C. 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 %) |

Sterility control:

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

BIBLIOGRAPHY

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- · COLIPA (1997) Guidelines on Microbial Quality Management (MQM). Brussels.
- DOWNES, F.P. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Food, 4th ed, ASM, Washington D.C.



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- FDA (Food and Drug Administration) (1998) Bacteriological Analytical Manual. 8th ed. Revision A. AOAC International. Gaithersburg. MD.
- HORWITZ, W. (2000) Official Methods of Analysis of AOAC INTERNATIONAL, 17th ed. Gaithersburg, MD. USA.
- ISO 9308-1 Standard (2000) Water Quality. Detection and enumeration of *E. coli* and coliform bacteria. Membrane filtration method.
- · ISO 11731 Standard (2017) Water Quality. Enumeration of Legionella.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- ISO 18415 Standard (2017) Cosmetics Microbiology Detection of specified and non-specified microorganisms.
- ISO 21149 Standard (2017) Cosmetics Microbiology Enumeration and detection of aerobic mesophilic bacteria.
- · ISO 21150 Standard (2015) Cosmetics Microbiology Detection of Escherichia coli.
- · ISO 22717 Standard (2015) Cosmetics Microbiology Detection of Pseudomonas aeuruginosa.
- · ISO 22718 Standard (2015) . Cosmetics Microbiology Detection of Staphylococcus aureus.
- · ISO 22964 (2017) Microbiology of the food chain.- Horizontal method for the detection of Cronobacter spp
- · PASCUAL ANDERSON, MªRª (1992) Microbiología Alimentaria. Díaz de Santos S.A., Madrid.
- USP 33 NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.

STORAGE

2-14 °C

SHELF LIFE

3 months unopened from date of manufacture

created: 13.01.2023



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