

Reference: 0836 **Technical Data Sheet**

Product: TSA DOUBLE WRAPP. IRRADIATED

Specification

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

Presentation

20 Plates /Irradiated 90 mm - Double wrapping

with: 21 ± 2 ml

Packaging Details

Shelf Life 3,5 months

Storage 2-14°C

1 box with 2 cellophane bags (double wrapping) with 10 plates/bag. Every pack exhibitis a irradiation indicator stacked on the side of the bag.(8-14kGy).

Composition

Composition (g/l):

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 plates by streaking methodology or by spiral method.

The inoculated plates 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.

Quality control

Physical/Chemical control

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

Microbiological control

Growth Promotion Test according to harmonized pharmacopoeial monographs and test methods & ISO 11133:2014 Spiral Spreading: Practical range 50 - 100 CFU (Productivity).

Aerobiosis. Incubation at 30-35 °C. Read after 18-24h 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 %) Aspergillus brasiliensis ATCC® 16404, WDCM 00053 Good (≥70 %) Salmonella typhimurium ATCC® 14028, WDCM 00031 Good (≥70 %) L. monocytogenes ATCC® 13932, WDCM 00021 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

Page 1 / 2 Revision date: 07/02/19



Reference: 0836 Technical Data Sheet

Product: TSA DOUBLE WRAPP. IRRADIATED

Bibliography

- · ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
- · 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.
- · EUROPEAN PHARMACOPOEIA 8.0 (2014) 8th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.
- · FDA (Food and Drug Adminstrations) (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 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- · ISO 22717 Standard (2015) Cosmetics Microbiology Detection of Pseudomonas aeuruginosa.
- · ISO/TS 22964 (2006) Milk and milk products.- Detection of Enterobacter sakazakii.
- · 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.

Page 2 / 2 Revision date: 07/02/19