

Technical Data Sheet

Product: SABOURAUD TLHTh AGAR DOUBLE WRAPP. IRRADIATED

Specification

Medium with neutralisers for the enumeration and cultivation of fungi, according to harmonized pharmacopoeial monographs and test methods.

Presentation

20 Plates /Irradiated	Packaging Details	Shelf Life	Storage	
90 mm Plates - Double Wrapping	1 box with 2 cellophane bags (double wrapping)	3,5 months	2-14°C	
with: 21 ± 2 ml	with 10 plates/bag. Every pack exhibitis a irradiation			
	indicator stacked on the side of the bag.(8-14kGy).			

Composition

40.0
5.0
5.0
0.7
5.0
1.0
0.5
15.0

Description /Technique

Description

Sabouraud Dextrose Agar is a modification of the classical Sabouraud medium for the cultivation of fungi. This formula helps to maintain the morphology of fungi, providing a reliable medium for both cultivation and differentiation.

Its selectivity is due to a low pH and a high glucose concentration, which together with incubation at a relatively lower temperature (25-30°C) favours the growth of fungi while discouraging that of bacteria.

The mixture of peptones employed has been selected to provide the fungi with all their nitrogen requirements.

The addition of neutralising agents TLHTh (Tween 80 - Lecithin - Histidine - Sodium Thiosulphate) may inactivate a variety of disinfectants.

- * The combination of lecithin, polysorbate 80 and histidine neutralises aldehydes and phenolic compounds.
- * The combination of lecithin and polysorbate 80 neutralises the quaternary ammonium compounds.
- * The polysorbate 80 neutralises hexachlorophene and mercurial derivates.
- * Sodium thiosulphate neutralises halogen compounds.
- * Lecithin neutralises clorhexidine.
- * Histidine neutralises formaldehyde.

Technique:

Incubate the plates aerobically at 22 +/- 2°C up to 5 days, or at 35±2°C to 48-72 hs

(Incubation times greater than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications)

After incubation, enumerate all the colonies that have appeared onto the surface of the membrane.

Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor. Report results as Colony Forming Unit (CFU's) per ml along with incubation time and temperature.

pH: 5.6 ± 0.2 at 25°C

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Growth

Good (≥70 %)

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Good (≥50%)- Atypical colonial appearance

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Quality control

Physical/Chemical control

Color : Straw-coloured yellow

Microbiological control

Inoculate 10 - 100 CFU per unit according to harmonized Eur. Pharmacopoeia

Aerobiosis. Incubation at 20-25 °C, reading after 24-72 hours for bacteria and 3-5 days for yeasts and moulds

Microorganism

Asperaillus brasiliensis ATCC[®] 16404, WDCM 00053 Candida albicans ATCC[®] 10231, WDCM 00054 Escherichia coli ATCC[®] 8739, WDCM 00012

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

 \cdot AJELLO, L. (1957) Cultural Methods for Human Pathogenic Fungi J. Chron. Dis. 5:545-551.

 \cdot COLIPA (1997) Guidelines on Microbial Quality Management (MQM). Brussels.

• 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.

• GEORGE, L.K., AJELLO, L. & PAPAGEORGE, C. (1954) Use of Cycloheximide in the Selective Isolation of Fungi Pathogenic to Man. J. Lab. Clin. Med, 44 (422-428).

· HANTSCHKE, D. (1968) Mykosen, 11, (769-778).

. ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

· ISO 16212 Standard (2017) Cosmetics - Microbiology - Enumeration of yeast and mould.

• PAGANO, J. LEVIN, J.D. and TREJO, W. (1957-58) Diagnostic Medium for Differentiation of Species of Candida. Antibiotics Annual, 137-143.

 \cdot SABOURAUD, R. (1910) Les Teignes. Masson, Paris.

· USP 33 - NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.

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