

Specification

Medium for the enumeration and cultivation of fungi (Mould and Yeast).

Presentation

	Packaging Details	Shelf Life	Storage
20 Prepared Plates 90 mm with: 21 ± 2 ml	1 box with 2 packs of 10 plates/pack. Single cellophane..	3 months	2-14 °C

Composition

Composition (g/l):

D(+)-Glucose.....	40.00
Peptone from casein	5.00
Meat Peptone.....	5.00
Agar.....	15.00
Chloramphenicol.....	0.05

Description /Technique

Description

This culture medium differs from the classical Sabouraud Agar only by the addition of chloramphenicol. This thermostable antibiotic has a broad antibacterial spectrum which ensures the selective isolation of fungi from highly contaminated samples.

This medium is also well suited for air environmental sampling (total compatibility with most commercially available air samplers) or for other types of environmental sampling (fingers or gloves of operators, swab streaking).

Technique

The technique of inoculation is by streaking methodology or by spiral method.

Incubate the plates right side up aerobically at 20-25°C for up to 5 days.

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

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

Each laboratory must evaluate the results according to their specifications.

Quality control

Physical/Chemical control

Color : Straw-coloured yellow pH: 5.6 ± 0.2 at 25°C

Microbiological control

Spiral Spreading: Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10⁴-10⁶ CFU (selectivity).

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

Microbiological control according to ISO 11133:2014/A1:2018.

Microorganism

Aspergillus brasiliensis ATCC® 16404, WDCM 00053

Candida albicans ATCC® 10231, WDCM 00054

Bacillus subtilis ATCC® 6633, WDCM 00003

S. cerevisiae ATCC® 9763, WDCM 00058

Escherichia coli ATCC® 8739, WDCM 00012

Growth

Good (≥50 %)

Good (≥50 %)

Inhibited

Good (≥50 %)

Inhibited

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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- 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).
- 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. & TREJO, W. (1957-58) Diagnostic Medium for Differentiation of Species of Candida. Antibiotics Annual, 137-143.
- SABOURAUD, R. (1910) Les Teignes. Masson, Paris.

Storage

Storage conditions: 2-14°C

Avoid direct contact with surfaces that can freeze product.