

Specification

Medium for detection, isolation and enumeration of fungi, particularly yeast and moulds, also from air and water samples.

Presentation

20 Prepared Plates
90 mm
with: 21 ± 2 ml

Packaging Details

1 box with 2 packs of 10 plates/pack. Single cellophane.

Shelf Life

3,5 months

Storage

2-14 °C

Composition

Composition (g/l):

Malt extract..... 30.00
Soy peptone..... 3.00
Chloramphenicol..... 0.10
Agar..... 15.00

Description /Technique

Malt Extract + Chloramphenicol Agar promotes the growth of almost all fungi because of its balanced composition, and its ability to inhibit bacteria to the addition of antibiotic.

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Spread the plates by streaking methodology or by spiral method. Incubate the plates up aerobically at 25-30 °C for up 5 days.

(Incubation times longer 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 agar.

Each laboratory must evaluate the results according to their specifications.

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

Quality control

Physical/Chemical control

Color : yellow

pH: 5.5 ± 0.2 at 25°C

Microbiological control

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

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

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

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

Microorganism

S. cerevisiae ATCC® 9763, WDCM 00058

Candida albicans ATCC® 10231, WDCM 00054

Aspergillus brasiliensis ATCC® 16404, WDCM 00053

Escherichia coli ATCC® 8739, WDCM 00012

Staphylococcus aureus ATCC® 6538, WDCM 00032

Growth

Good (≥50 %)

Good (≥50 %)

Good (≥50 %)

Inhibited

Inhibited

Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

Bibliography

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