

Specification

Solid medium for the isolation and enumeration of fungi.

Formula * in g/L

Malt extract..... 30,0
 Soy peptone..... 3,0
 Agar..... 15,0

Final pH 5,6 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 48 g of powder in 1 l of purified water and let it soak. Bring to the boil and distribute into suitable containers. Sterilise in the autoclave at 121°C for 15 minutes.

Description

Malt extract agar No. 2 promotes the growth of almost all fungi because of its balanced composition, and its ability to inhibit most bacteria due its low pH.

Should greater inhibition of bacterial growth be desired, readjust the pH to 3.5 by adding a sterile solution of 10% lactic acid or 5% tartaric acid to the molten medium. Do not reheat the medium after these additions.

Technique

See appropriate normatives for specific procedures and techniques.

Quality control

Incubation temperature: 20-25°C

Incubation time: ≤ 5 days

Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (productivity) according to ISO 11133:2014/Amd 1:2018. Spiral Plate Method.

Microorganism
Growth
Remarks

Aspergillus brasiliensis ATCC® 16404

Productivity > 0.70

5 days (black)

Saccharomyces cerevisiae ATCC® 9763

Productivity > 0.70

2 days (white)

Candida albicans ATCC® 10231

Productivity > 0.70

2 days (white)

References

- ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press. Boca Raton. Fla. USA.
- 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.
- RAPP, M. (1974) Indikator-Zusätze zur Keimdifferentierung auf Würze und Malzextrakt Agar. Milchwissenschaft 29:341-344.
- REIS, J. (1972) Ein selektives kulturmedium für der Nachweiss von *Aspergillus flavus*. Zbl. Bakt. Hyg. I. Abt. Orig. 220:564-566.

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).