



Reference : 01-574

Scharlau Microbiology - Technical data sheet

Product :
MALT EXTRACT AGAR No. 3

Specification

Solid medium for the isolation and enumeration of fungi.

Formula * in g/L

Malt extract..... 30.0
Mycological peptone..... 5.0
Agar..... 15.0

Final pH 5,4 ±0,2 at 25 °C

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

Directions

Suspend 50 g of powder in 1 L of distilled water. Bring to the boil and distribute into suitable containers. Sterilize in the autoclave at 121°C for 15 minutes.

Description

The balanced and rich nutrient composition of the medium makes it suitable for morphogenetic and general morphological studies of fungi. Due to its low pH bacterial growth is largely restricted. Total suppression can be achieved by adding 20 mL of a sterile solution of 10% Lactic acid or 5% tartaric acid, to the melted medium at 55°C, reducing the pH to 3,5. In these conditions, do not reheat the medium to avoid hydrolysis of the agar.

Quality control

Incubation temperature: 20-25°C

Incubation time: 48 h-5 days

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

Microorganism

Candida albicans ATCC® 10231

Saccharomyces cerevisiae ATCC® 9763

Aspergillus brasiliensis ATCC® 16404

Growth

Productivity > 0.70

Productivity > 0.70

Productivity > 0.70

Remarks

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5 days (black spores)



Saccharomyces cerevisiae ATCC 9763



Aspergillus brasiliensis ATCC 16404

References

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. London.
- BALLOWS, HAUSLER, HERMAN, ISENBERG & SHADOMY (eds.) (1991) Manual of Clinical Microbiology. ASM. Washington.
- DOWNES, F.P. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA. Washington.
- FDA (Food and Drug Administrations) (1978) Bacteriological Analytical Manual A.O.A.C. Washington.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- RAPP, M (1974) Indikator-Zusätze zur Keimdifferenzierung auf wärze und Malzextrakt Agar. Milchwiss. 29:341-34.
- 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).



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