Product :
MALT EXTRACT AGAR No. 2

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

Directions
Suspend 48 g of powder in 1 L of distilled water. Bring to the boil. Distribute into suitable containers and 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.
The formulation has been adopted by the ISO 16212 standard that recommends adding chloramphenicol to the medium to increase the selectivity.

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 Keimdifferenzierung 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 ºC to 30 ºC).