



Reference : 02-491

Scharlau Microbiology - Technical data sheet

Product :
MALT EXTRACT BROTH No. 2

Specification

Liquid medium for cultivation of yeasts and moulds.

Formula * in g/L

Malt extract..... 17.0
Peptone..... 3.0

Final pH 5,4 ±0,2 at 25 °C

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

Directions

Dissolve 20 g of powder in 1 L of distilled water, heating if necessary. Distribute in suitable containers and sterilize in the autoclave at 121°C for 15 minutes. Do not overheat, since - Maillard reaction browning may occur.

Description

This formulation of the classic Malt Extract Broth is according to Reiss's modification in order to achieve better results for the cultivation of *Aspergillus flavus*.

Malt Extract Broth has been widely used in maintenance, isolation and identification of fungi, and it is also proposed in several pharmacopoeias as a medium for the control of sterility in pharmaceutical products. It is frequently used in comparative morphological studies.

Technique

Should more selectivity be desired, a few millilitres of 10% lactic acid, or 5% tartaric acid, but the pH should not be below 3,5 as this makes growth slow and difficult.

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 .

Microorganism	Growth	Remarks
<i>Aspergillus brasiliensis</i> ATCC® 16404	Good	Black sporulation at 5 days
<i>Saccharomyces cerevisiae</i> ATCC® 9763	Good	-
<i>Candida albicans</i> ATCC® 10231	Good	-

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.
- 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 °C to 30 °C).