



## **Product Data Sheet**

### **MALT AGAR**

**Product No.** GB-DCM-00404-1A

### **INTENDED USE**

For cultivation and isolation of yeasts and molds.

### **PRODUCT SUMMARY**

Media based on malt extract may be considered as general growth substrates due to their richness and nutrient balance. They are very suitable for the cultivation of fastidious microorganisms. With acidic pH, they are used for the isolation, cultivation and maintenance of yeast and moulds. Malt media for yeasts and moulds have been widely used for many years. In 1919, Reddish prepared a satisfactory substitute for beer wort from malt extract. Malt Agar is included in Official Methods of Analysis of AOAC International. It is recommended by APHA for use in both antibiotic and acidified standard methods for yeast and mould counts in food. This medium is also used for maintaining stock cultures of fungi. Heating process during rehydration and sterilization should be for shorter period as excessive heat causes partial hydrolysis of the agar, which results in inability to gel properly when cooled. If desired additional 5 grams of agar may be added.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Malt extract	30.000
Agar	15.000

### **PRINCIPLE**

Malt Agar contains malt extract, which provides carbon, protein and nutrient sources required for the growth of microorganisms. The acidified medium inhibits the growth of bacteria and allows good recovery of yeasts and moulds.

### **INSTRUCTION FOR USE**

- Dissolve 45 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 118°C for 15 minutes.
- Avoid overheating, as it will result in a softer and darker agar.
- Cool to 45-50°C. Mix well and pour into sterile Petri plates.



## QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to brownish yellow homogeneous free flowing powder.

Appearance of prepared medium : Light amber coloured clear to slightly opalescent gel forms in tubes or Petri plates.

pH (at 25°C) : 5.5± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus niger	16404	50-100	Luxuriant	≥70 %	35-37°C	18-48 Hours
Candida albicans	10231	50-100	Luxuriant	≥70 %	35-37°C	18-48 Hours
Saccharomyces cerevisiae	9763	50-100	Luxuriant	≥70 %	35-37°C	18-48 Hours
Penicillium chrysogenum	9179	50-100	Luxuriant	≥70 %	35-37°C	18-48 Hours
Trichophyton mentagrophytes	9533	50-100	Luxuriant	≥70 %	35-37°C	18-48 Hours

## STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

## DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**