

## Product Data Sheet

### **MGYP AGAR WITH COPPER**

**Product No.** GB-DCM-00428-1A

### **INTENDED USE**

For isolation and cultivation of wild yeasts in the brewing industry.

### **PRODUCT SUMMARY**

Yeasts are unicellular fungi. Yeasts grow well in culture media containing dextrose. They are easily differentiated from most bacteria because of their relatively larger size and morphological features. MYGP Agar with copper is used for the isolation and cultivation of wild yeasts in the brewing industry. This medium is used for testing the quality of beers in Brewery industry.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Yeast extract	3.000
Malt extract	3.000
Gelatin peptone	5.000
Dextrose(Glucose)	10.000
Cupric sulphate	0.400
Agar	15.00

### **PRINCIPLE**

Copper in the medium inhibits the larger yeasts. Malt extract and yeast extract provide necessary nutrients to support the growth of yeasts. Dextrose(Glucose) is the suitable carbohydrate for the growth of yeasts. The acidic pH in the medium inhibits the growth of bacteria and favours the growth of yeasts.

### **INSTRUCTION FOR USE**

- Dissolve 41.4 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C. Mix well and pour into sterile Petri plates.



### QUALITY CONTROL SPECIFICATIONS

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

Appearance of prepared medium : Brownish orange coloured opalescent to hazy gel with precipitate forms in Petri plates

pH (at 25°C) : 6.2± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Lactobacillus fermentum	9338	50-100	luxuriant	≥70 %	35-37°C	48 Hours
Candida albicans	10231	50-100	luxuriant	≥70 %	35-37°C	48 Hours
Saccharomyces cerevisiae	9763	50-100	luxuriant	≥70 %	35-37°C	48 Hours
Aspergillus brasiliensis	16404	50-100	luxuriant	≥70 %	35-37°C	48 Hours
Escherichia coli	25922	≥10 <sup>3</sup>	Inhibited	0%	35-37°C	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.**

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