



Reference : 01-219

Scharlau Microbiology - Technical data sheet

Product :  
YEAST MALT AGAR (YM AGAR)

#### Also known as

YMA; YM Agar

#### Specification

Solid medium for the cultivation of fungi and aciduric microorganisms.

#### Formula \* in g/L

Dextrose..... 10.0  
Peptone..... 5.0  
Malt extract..... 3.0  
Yeast extract..... 3.0  
Agar..... 20.0

Final pH 6,2 ±0,2 at 25 °C

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

#### Directions

Suspend 41 g of powder in 1 L of distilled water and let it soak. Bring to the boil and distribute into suitable containers. Sterilize in the autoclave at 121°C for 15 minutes.

#### Description

This is a classical culture medium for the cultivation of moulds, yeasts and acidophilic microorganisms. The medium may be made selective to one or other group of microorganisms by adding appropriate antibiotics when the medium is at 50° C.

Lin in 1981 and Taylor and Marsh in 1984, using the YM Agar as grown basis developed the MYGP+Copper Medium that is very used in the brewing industry.

#### 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

*Aspergillus brasiliensis* ATCC® 16404

Productivity > 0.70

Black sporulation (5 days)

*Saccharomyces cerevisiae* ATCC® 9763

Productivity > 0.70

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*Candida albicans* ATCC® 10231

Productivity > 0.70

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#### References

- ATLAS, R.M., L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press, Inc. Londres.
- LIN, Y. (1981) Formulating and testing of cupric sulphate medium for wild yeast detection. J. Inst. Brew. (87) 151-154
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- SAMSON, R.A., E.S. HOEKSTRA, J.C. FRISVAD y O. FILTENBORG. (2002) Introduction to food and airborne fungi. 6th ed. CBS. Utrech. Holanda.
- TAYLOR, G.T & A.S. MARSH (1984) MYGP+Copper, a medium that detects both *Saccharomyces* and non-*Saccharomyces* wild yeast in the presence of culture yeast. J. Inst. Brew. (90) 134-145.
- WICKERHAM, L.J. & L.F. RETTGER (1939) A taxonomic study of *Monilia albicans* with special emphasis on morphology and morphological variation. J. Tropical Med. Hyg. (42) 174-179, 187 and 204.
- WICKERHAM, L.J. (1951) The taxonomy of yeasts. US Dept. Agric. Tech. Bull No 1029 1-19.

#### Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).