SMITH RIVER BIOLOGICALS

Quality Biologicals and Prepared Media for the Laboratory Professional

YM-11 Agar

Purpose:

To facilitate the selection and enumeration of a wide variety of yeasts and molds, especially when used with hydrophobic grid membrane filtration.

It is not for IVD use.

Part Numbers:

Mono Plate……11-YM110
Bottle (500 ml)……B-YM11500
Bottle (1 L)……B-YM111L
*Dry Base……DB-YM110
* Contact us with your dry base volume specifications

Principle:

YM-11 Agar is highly nutritious, with vitamins, nitrogenous compounds, and other nutrients provided by the peptones. Dextrose provides the fermentable carbohydrates. Sodium chloride maintains the proper osmotic pressure, while the potassium phosphate dibasic buffers the pH. Trypan blue dyes the yeast and mold colonies blue. Chloramphenicol and chlortetracycline inhibit bacterial growth.

Components ***(Ingredients per Liter)***

Peptone from Soy	20 g
Peptone from Casein	20 g
Dextrose	5 g
Sodium Chloride	5 g
Potassium Phosphate, Dibasic	2.4 g
Trypan Blue	0.03 g
Chloramphenicol	0.1 g
*Chloretracycline HCl	0.1 g
Agar	15 g

*Not included in dry base. Sold separately as S-
Formula may be adjusted to meet performance standards

Quality Control:

Prepared agar is bluish gray and somewhat hazy.

pH at 25°C: 7.0 ±0.2

Do not use if agar shows any signs of deterioration, including cracking or discoloration.

Microbial Response:

Test Organism	Incubation Conditions	Results
B. subtilis ATCC®6633	Aerobic, 35°C, 18-24 hours	Inhibited
E. coli ATCC®25922	Aerobic, 35°C, 18-24 hours	Inhibited
A. niger ATCC®16404	Aerobic, 20-30°C, 1-5 days	Growth, blue colonies
C. albicans ATCC®10231	Aerobic, 20-30°C, 1-5 days	Growth, blue colonies

Handling and Storage Conditions:

Unpack agar immediately upon receiving shipment.

Agar should be stored at 2-8 °C away from direct sunlight.

References:

Entis, P. Two-Day Hydrophobic Grid Membrane Filter Method for Yeast and Mold Enumeration in Food Using YM-11 Agar: Collaborative Study. *J. AOAC Int.* Vol. 79. 1996.

Entis, P. and I. Lerner. Two-Day Yeast and Mold Enumeration Using the ISO-GRID Membrane Filter System in Conjunction with YM-11 Agar. *J. Food Protect.* Vol. 59. 1996.