

# GPYA (Glucose Peptone Yeast Extract Agar)



Medium used for the isolation and cultivation of yeasts from soil specimens.

## • CONTENTS (Liter)

Peptic Digest of Animal Tissue	10.0 g
Yeast Extract	5.0 g
Dextrose	20.0 g
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 50.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

## • INTERPRETATION

GPYA (Glucose Peptone Yeast Extract Agar) is a medium used for the isolation and cultivation of yeasts from soil specimens. Peptic digest of animal tissue provides the nitrogen and vitamins. Yeast extract provides nitrogen, carbon, vitamins and minerals for the growth of microorganisms. Dextrose is a carbohydrate source. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

### Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 36 ± 1°C / 18 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Saccharomyces cerevisiae</i>	76625	50-100	good
<i>Candida albicans</i>	10231	50-100	good

**• STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Ausubel, Brent, Kingston, Moore, Seidman, Smith and Struhl, 1994, Current Protocols in Molecular Biology, Current Protocols, Brooklyn, N.Y.
2. American Type Culture Collection, Manassas, Va.,USA.
3. Subba Rao, N.S., (1977). Soil Microorganisms and Plant Growth. Oxford and IBM Publishing. New Delhi, India.

**• PACKAGE**

Cat. No : MB-G0923 GPYA (Glucose Peptone Yeast Extract Agar)	500 G
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