YG Broth

Medium used for the cultivation and enumeration of yeasts, molds and other microorganisms from soil and water.

• CONTENTS (Liter)

Yeast Extract	1.0 g
Glucose	1.0 g
Dipotassium Phosphate	0.3 g
Monopotassium Phosphate	0.2 g
Magnesium Sulfate Heptahydrate	0.2 g

Final pH = 6.9 ± 0.2 at 25°C

• PROCEDURE

Suspend 2.7 G of powder in 1 L of distilled or deionized water. If necessary, add 5 mL of 0.1% Crystal Violet Solution. 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 tubes.

• INTERPRETATION

YG Broth is a medium used for the cultivation and enumeration of yeasts, molds and other microorganisms from soil and water. Yeast extract is the nitrogen and vitamin sources. Glucose is a fermentable carbohydrate. Dipotassium phosphate and monopotassium phosphate are the buffering agents. Magnesium sulfate heptahydrate provides essential ions for the growth of microorganisms.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 28 ± 2°C for 40 - 72 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 to slightly opalescent
Color: very light amber
Incubation conditions: 28 ± 2°C / 40 - 72 hours

Microorganism	ATCC	Growth (w/o Crystal Violet)	Growth (w/ Crystal Violet)
Escherichia coli	25922	good	good
Aspergillus niger	16404	good	inhibited
Candida albicans	10231	good	inhibited
Stapylococcus aureus	25923	good	inhibited

• 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. Atlas and Park (1993) Handbook of Micr. Media

• PACKAGE

Cat. No : MB-Y0778 YG Broth	500 G

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