

BiGGY (Bismuth Sulfite Glucose Glycine Yeast) (Nickerson) Agar

Medium used for the isolation and identification of *Candida* spp. from clinical samples.

• CONTENTS (Liter)

Yeast Extract	1.0 g
Bismuth Ammonium Citrate	5.0 g
Sodium Sulfite	3.0 g
Glucose	10.0 g
Glycine	10.0 g
Agar	18.0 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 47.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

BiGGY (Bismuth Sulfite Glucose Glycine Yeast) (Nickerson) Agar is a medium used for the isolation and identification of *Candida* spp. from clinical samples. Yeast extract is a carbon, nitrogen, vitamins and other nutrient source. Bismuth present in the medium differentiates *Candida* colonies which appear black colonies, more or less intensely. Bismuth ammonium citrate and sodium sulfite inhibits Gram-positive microorganisms. Glucose is the carbohydrate source for fermentation. Glycine is stimulating the growth. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 ± 2°C for 48 - 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: opaque, may have slight precipitates

Color: off white

Incubation conditions: 25 ± 2°C / 48 - 72 hours

Microorganism	ATCC	Growth	Characteristics
<i>Candida albicans</i>	10231	good	brown colonies with dark centers
<i>Candida krusei</i>	32196	good	brown, wrinkled colonies
<i>Candida tropicalis</i>	750	good	brown colonies with dark centers
<i>Escherichia coli</i>	25922	partially inhibited	mucoïd colonies colorless to light brown
<i>Staphylococcus aureus</i>	25923	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. Barr, F.S., and G.F. Collins (1966). Trans. N.Y. Academy Sci. Series 11.
2. Nickerson, W.J. (1947). Biology of pathogenic fungi. The Chronica Botanica Co., Waltham, MA.

• PACKAGE

Cat. No : MB-B1135 BiGGY (Bismuth Sulfite Glucose Glycine Yeast) (Nickerson) Agar	500 G
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