

# BIGGY AGAR (NICKERSON MEDIUM)

**INTENDED USE:**

BIGGY Agar is used for the isolation and differentiation of *Candida* spp

**PRINCIPLE AND INTERPRETATION:**

The nitrogen, vitamin and carbon source is provided by Yeast Extract in BIGGY Agar. Glycine is used to stimulate growth. Dextrose is the carbohydrate source. *Candida* spp. reduce the Bismuth Ammonium Citrate, and colonies become brown to black in color. Bismuth Ammonium Citrate and Sodium Sulphite are selective agents against bacteria, often present as normal flora. Agar is the solidifying agent.

**COMPOSITION:**

Ingredients	Gr/Liter
Yeast Extract	1 gr
Glycine	10 gr
Glucose	10 gr
Sodium sulphite	3 gr
Bismuth ammonium citrate	5 gr
Agar	13 gr

\*\*\*Formula adjusted, standardized to suit performance parameters

pH: 6,8 ± 0,2

**PRECAUTIONS:**

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

**TEST PROCEDURE:**

Refer to appropriate references for specific procedures on yeast and mold testing in foods.

**QUALITY CONTROL:****1. Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

**2. Physical/Chemical Control**

pH: 6,8 ± 0,2

**Appearance:** Moderately hazy and grey-white in color

**3. Microbiological Control:** Incubation 18-72 hours at 30-35°C.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
<i>Candida albicans</i> ATCC 10231	10-100	Good	Brown coloured colonies
<i>Candida tropicalis</i> ATCC 750	10-100	Good	Brown coloured colonies
<i>Escherichia coli</i> ATCC 25922	100-1000	Inhibited	-

**STORAGE CONDITIONS AND SHELF LIFE:**

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

**DISPOSAL:**

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

**PACKAGING:**

**Katalog Number:** 02075

**Packaging:** Single wrap

**Content:** 10 plates/each package

## REFERENCES:

1. Nickerson, W. J. 1947. Biology of pathogenic fungi. The Chronica Botanica Co., Waltham, MA.
2. Nickerson, W. J. 1953. Reduction of inorganic substances by yeasts. I. Extracellular reduction of sulfite by species of Candida. J. Infect. Dis. 93:43.
3. Baron, E. J., L. R. Peterson, and S. M. Finegold. 1994. Bailey & Scott's diagnostic microbiology, 9th ed. Mosby-Year Book, Inc., St. Louis, MO.
4. Warren, N. G., and K. C. Hazen. 1995. Candida, Cryptococcus, and other yeasts of medical importance, p. 723-737. In P. R. Murray, E. J. Baron, M. A. Pfaller, F. C. Tenover and R. H. Tenover (eds.). Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.
5. MacFaddin, J. D. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1, p. 65-68. Williams & Wilkins, Baltimore, MD.

**STERILE** | **A**

Aseptic Sterile

**LOT**

Batch Code

**REF**

Catalogue Number

**CONTROL** | **-**

Negative Controls

**CONTROL** | **+**

Positive Controls



Use by



Temperature  
Limitation



Do not reuse



Contains sufficient  
for <n> tests



Look at user manual



Manufacturer