

BIGGY (NICKERSON) AGAR

Selective medium for *Candida spp* isolation and differentiation from clinical samples.

| TYPICAL FORMULA | (g/l) |
|--------------------------|-------|
| Yeast Extract | 1.0 |
| Bismuth Ammonium Citrate | 5.0 |
| Sodium Sulphite | 3.0 |
| Glucose | 10.0 |
| Glycine | 10.0 |
| Agar | 18.0 |

Final pH = 6.8 ± 0.2 at 25 °C.

DIRECTIONS

Suspend 47.0 g of powder in 1 liter of distilled or deionized water. Heat to boiling while swirling. Do not autoclave and avoid overheating. Cool to 45-50 °C. Dispense in petri dishes.

DESCRIPTION

BIGGY (NICKERSON) Agar is a selective medium for isolation of *Candida spp* from pathological material containing mixed bacterial flora.

TECHNIQUE

Inoculate the medium with the specimen to examine using a sterile loop and incubate at 28-30 °C for 18-72 hours. Bismuth present in the medium differentiates *Candida* colonies which appear black in color, more or less intensely, according to the sulfite reducing ability of the species under examination. *Candida albicans* grows after 48 hours of incubation with brown-black colonies, smooth, circular and slight mycelial fringe. *Candida tropicalis* grows with brownblack colonies with black center, slight fringe, sometimes surrounded by brown-black halo caused by spreading in the medium of the sulfite reducing enzyme. *Candida pseudotropicalis* grows with large, reddish brown in color, colonies. *Candida krusei* grows with large wrinkled colonies with black center, brown edges and yellow halo.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light-beige.

Prepared medium

Appearance: opalescent with a flocculent precipitate.

Color: very light to light amber.

Incubation conditions: 30 ± 2 °C for 18-72 hours.

| Microorganism | ATCC | Growth | Characteristics |
|---------------------------|-------|--------|----------------------|
| <i>Escherichia coli</i> | 25922 | none | |
| <i>Candida albicans</i> | 10231 | good | brown/black colonies |
| <i>Candida kefyr</i> | 4135 | good | brown colonies |
| <i>Candida tropicalis</i> | 750 | good | brown/black colonies |

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

Store prepared plates at 2-8 °C.



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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.

PRESENTATION

| Product | REF | Σ |
|---------------------------------|--------|----------|
| BIGGY (NICKERSON) AGAR (11.1 l) | 610135 | 500 g |
| BIGGY (NICKERSON) AGAR (2.2 l) | 620135 | 100 g |

TABLE OF SYMBOLS

| | | | | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| LOT Batch code |  Caution, consult accompanying documents |  Manufacturer |  Contains sufficient for <n> tests | IVD <i>In Vitro</i> Diagnostic Medical Device |
| REF Catalogue number |  Fragile, handle with care |  Use by |  Temperature limitation |  Keep away from heat source |



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