Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

BiGGY (Bismuth Glycine Glucose Yeast Agar) RDM-BiGY-01

Principle
BiGGY Agar is a modification of the formula described by Nickerson (1947, 1953), developed for isolation of sulfite reducing *Candida species*. Media is composed of yeast extract, glycine, D-glucose, bismuth sulphite indicator and agar. Yeast Extract provides the nitrogen, vitamins and amino acids. Glycine is used to stimulate growth. Dextrose is the carbon source. Bismuth sulphite indicator is composed of bismuth ammonium citrate and sodium sulphite and act as selective agent for *Candida species*. *Candida species* reduce bismuth sulfite, and changes its color form brown to black. Bismuth Sulfite is also used as a selective agent against other bacteria Agar is used as the solidifying agent.

Use: Recommended for the selective isolation, detection of *Candida spp.* from clinical and non-clinical samples.

Contents*

Ingredients	**Gram/Litre**
Yeast Extract	1.000
Glycine	10.000
D-Glucose	10.000
Bismuth Sulphite indicator	8.000
Agar	16.000
pH at 25˚C	6.8 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 45.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely. **DO NOT STERILIZE BY AUTOCLAVING**, cool it to 42-45 °C and distribute aseptically in to the plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed
Pharmaceutical samples, clinical and non-clinical samples such as tissues, skin scrapings, hair, nail clipping etc. etc.

Precautions to be taken
These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation
The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige, colored free flowing, homogeneous powder
Reaction of 4.5% solution	6.8 ±0.2 at 25 ˚C
pH	6.60- 7.00
Gelling	Firm comparable with 1.6% agar gel
Color and clarity of ready medium	Light amber, opalescent gel with a slight precipitate

Growth Promotion properties	Best at ≤ 100 CFU at 32-37 ºC for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Organism	Inoculum	Growth	Colony color	Incubation Temperature	Incubation period
Candida albicans (ATCC 10231)	50-100	Luxurious	Brown to black	33-37 ℃	18-48 h
Escherichia coli (ATCC 8739)	50-100	Inhibited	-	33-37 ℃	18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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