Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Brilliant Green Agar RDM-BGA-01

Principle
Brilliant green agar is composed of protease peptone, yeast extract, lactose, saccharose, sodium chloride, brilliant green, phenol red and agar. Protease peptone provides nitrogen and necessary growth elements. Yeast extract provide nitrogen, carbon, vitamins and other growth factors. Lactose and sacchorese are source of carbohydrates. Sodium chloride maintains osmatic balance. Brilliant green inhibits both gram positive and negative bacteria except *Salmonella spp.*. Phenol red is pH indicator. Agar is solidifying agent.

Use: Recommended for isolating *Salmonella* other than *Salmonella typhi.*

Contents*

Ingredients	**Gram/Litre**
Proteose Peptone	10.000
Yeast Extract	3.000
Lactose	10.000
Saccharose	10.000
Sodium Chloride	5.000
Brilliant Green	0.012
Phenol Red	0.080
Agar	20.000
pH at 25˚C	6.9 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 58.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, (**AVOID OVERHEATING**) cool it to 42-45 °C and distribute aseptically in petri plates. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed
Pharmaceutical samples, clinical and non-clinical samples 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	Pinkish beige colored free flowing, homogeneous powder
Reaction of 5.8% solution	6.9 ±0.2 at 25 ˚C
pH	6.70- 7.10
Gelling	Firm comparable with 2% agar gel
Color and clarity of ready medium	light orange brown colored opalescent gel

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
Salmonella typhimurium (ATCC 14028)	50-100	Luxurious	Pink white with red sounding	33-37 ℃, 18-24 h
Escherichia coli (ATCC 8739)	50-100	Poor	Yellow-green	33-37 ℃, 18-24 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.

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