

TECHNICAL DATA SHEET

Brilliant Green Bile Agar

Principle

Brilliant green bile agar is composed of peptone, lactose, sodium sulphite, ferric chloride, monopotassium phosphate, eriochlorin, basic fuchsin, bile, and brilliant green, phenol red and agar. Peptone provides nitrogen and necessary growth elements. Lactose is carbon source. Sodium sulphite is added to stimulate growth of microorganisms. Ferric chloride provides trace elements. Phosphate buffers the medium. Bile and brilliant green inhibits both gram positive and negative bacteria except Coliforms. Phenol red is pH indicator. Agar is solidifying agent. Erioglaucine and basic fuchsin together form the indicator system, when the pH is neutral; color of the medium is blue. In case of lactose fermentation (acidic medium) the medium turns the pink and colonies appear pink to deep red depending on the pH change. Since, colonies of coliform bacteria are deep red surrounded by a pink halo against blue background of the medium.

Use: For enumeration of coliform bacteria in water, sewage and foods.

Contents*

Ingredients	Gram/Liter
Peptone	8.250
Lactose	1.900
Sodium sulphite	0.205
Ferric chloride	0.0295
Monopotassium phosphate	0.0153
Erioglaucine	0.0649
Basic fuchsin	0.0776
Bile salt	0.00295
Brilliant Green	0.00003
Agar	10.150
pH at 25°C	6.9 ±0.2

* Formula adjusted for optimum performance and parameters

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Directions: Dissolve 20.50 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 2.07% solution	6.9 ±0.2 at 25 °C
pH	6.70- 7.10
Gelling	Firm comparable with 1.0 % agar gel
Color and clarity of ready medium	Blue to purple colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-48 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-24 h
Negative control	Performed using sterile distilled water

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Different Microbial Response

Cultural characteristics observed after incubation at 33-37°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth	Colony color
<i>Escherichia coli</i>	8739	50-100	Luxuriant	Deep red with bile precipitate
<i>Klebsiella aerogenes</i>	13048	50-100	Luxuriant	Pink
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	Colorless to light pink
<i>Staphylococcus aureus</i>	25923	50-100	Inhibited	---

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

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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