OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Brilliant Green Bile Broth 2%
(Brilliant Green Bile Lactose Broth 2%)

Principle

Brilliant green bile broth (BGB) medium is composed of peptone, which provide ample amount of the carbon, nitrogen, essential and non-essential amino acids, along with the trace minerals. The Bile salts in it inhibit the gram-positive microbes. Lactose is a carbohydrate source. Bacteria that ferment lactose are detected by the gas production trapped inside the Durham's tube. Brilliant Green inhibits gram-positive bacteria and many gram-negative bacteria other than coliforms. Bile broth base used as selective microbial media for enumeration and detection of the enterococcus family members.

Use: Recommended for detection and confirmation of coliform bacteria in municipal water, waste water, food, milk and dairy products.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Bile Salts	20.000
Lactose	10.000
Brilliant Green	0.013
pH at 25˚C	7.2 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 40.0 grams in 1000 ml distilled water. Heat to dissolve the medium completely and distribute in fermentation tubes containing inverted Durham's tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. For preparation of double strength, it is recommended to dissolve 80.00 grams per litre in 1000ml distilled water.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

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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	**Greenish beige colored free flowing, homogeneous powder**
Reaction of 4.0% solution	**7.2 ±0.2 at 25 ˚C**
pH	**7.00- 7.60**
Color and clarity of ready medium	**Emerald green, clear solution**
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	ATCC	Inoculum	Growth	Gas production	Incubation period
Escherichia coli	25922	50-100	Luxurious	Positive reaction	32-37 ºC for 18-48 h
Bacillus subtilis	6633	50-100	Inhibited	---	32-37 ºC for 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.

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