

Brilliant Green Lactose Bile Broth

Product No.	Product Category	Specification
HCM004	Dehydrated Culture Medium	500g/bottle

Intended Use

For the selective enrichment, enumeration and confirmation of *Escherichia coli* and other fecal coliform organisms from food and animal feed, water and other materials.

Principle and Interpretation

Enzymatic digest of casein (Peptone) provides carbon and nitrogen sources; lactose as fermentable sugars; ox bile powder and brilliant green as the inhibitory agents for Gram positive organisms.

Formulation

Ingredients	/liter
Enzymatic digest of casein (Peptone)	10.0g
Lactose	10.0g
Ox bile	20.0g
Brilliant green	0.0133g
pH7.2±0.2 at 25°C	

Preparation

Dissolve 40 g in 1L of purified water. Fill into tubes containing Durham tubes and autoclave 15 min at 121 °C. The Durham tubes shall not contain any air bubbles after autoclaving.

Quality Control

Cultural characteristics observed after incubation at 35-37°C for 24 hours

Quality control strains	Approx. Inoculum(CFU)	Expected Results	
		Growth	Gas
<i>Escherichia coli</i> ATCC25922	10-100	Growth	Positive
<i>Salmonella typhimurium</i> ATCC14028	> 10 ⁴	Growth	Negative
<i>Staphylococcus aureus</i> ATCC6538	> 10 ⁴	Partial to complete inhibition	Negative

Storage and Shelf Life

2-30°C, Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

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Technical Data Sheet



Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

Revision

On June 14, 2024

References

ISO 4831:2006 Microbiology of food and animal feeding stuffs -- Horizontal method for the detection and enumeration of coliforms – Most probable number technique.

FDA- BAM Media M25: Brilliant Green Lactose Bile Broth.

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