

## Brilliant Green Bile Lactose Broth - Instructions for Use

### *Intended Use*

BACGro™ Brilliant Green Bile Lactose Broth (BGBLB), when prepared as directed, is intended for laboratory use as a detection medium for coliforms in food and dairy products. BACGro™ BGBLB conforms to ISO 11133 standards.

### *Product Summary*

Brilliant Green Bile Lactose Broth is an inhibitory broth that promotes the growth of coliforms and inhibits Gram-positive and some Gram-negative organisms. This is achieved with the use of both oxgall and brilliant green dye. Coliforms ferment the lactose and are detected by gas production.

### *Formulation\* (per Liter)*

Peptone	10.0 g
Lactose	10.0 g
Oxgall	20.0 g
Brilliant Green	0.013 g
Total	40.0 g/L

\*Formula may be supplemented and/or adjusted as required to meet performance criteria

### *Directions*

1. Add 40 g of BGBLB powder to 1 L of deionized water.
2. Stir to dissolve completely.
3. Autoclave at 121°C for 15 minutes.
4. Cool prior to use.

### *Precautions*

This product is for laboratory use only and should only be used by qualified, trained laboratory personnel. Personnel should always use proper aseptic technique and observe all biohazardous precautions. All microbiological cultures should be presumed to be infectious.

Avoid ingestion, inhalation, or contact with skin and mucous membranes. If contact occurs, flush the area with clean water.

## Quality Control Specifications

Gold Standard Diagnostics tests each lot of manufactured BACGro™ culture media utilizing appropriate control organisms and specifications as documented on the Certificate of Analysis. End users should perform quality control testing in accordance with government regulatory requirements and accreditation guidelines. The following specifications are routinely used for testing:

Appearance (dehydrated): Beige to green-beige, homogenous, free flowing powder, free of debris.

Appearance (prepared): Clear, emerald green, with no precipitate or debris.

pH (prepared): 7.0 – 7.4 at 25°C

Organism Performance:

Strain ID	Inoculum	Incubation			Result
		Time	Temp.	Environment	
<i>C. freundii</i> (ATCC® 43864)	<100 CFU	24 – 48 hr.	30° C	Aerobic	Growth / Gas production
<i>E. coli</i> (ATCC® 8739)	<100 CFU	24 – 48 hr.	30° C	Aerobic	Growth / Gas production
<i>E. coli</i> (ATCC® 25922)	<100 CFU	24 – 48 hr.	30° C	Aerobic	Growth / Gas production
<i>E. faecalis</i> (ATCC® 19433)	>1000 CFU	24 – 48 hr.	30° C	Aerobic	Inhibited
<i>E. faecalis</i> (ATCC® 29212)	>1000 CFU	24 – 48 hr.	30° C	Aerobic	Inhibited

## Limitations of the Procedure

This product is not labeled for use as a medical device, and is not intended to diagnose, treat, or prevent disease.

Due to variation in nutritional requirements, some species or strains may be encountered that grow poorly in this medium.

Further biochemical or serological testing is required for the identification of organisms grown in this medium.

### ***Storage and Expiration***

BACGro™ Brilliant Green Bile Lactose Broth should be stored at 2 – 30°C. Because of the hygroscopic nature of dehydrated culture media, it should be stored in a dry place and the lid should remain tightly sealed. Media should be discarded if it is not free flowing or shows discoloration.

The expiration date printed on the label is applicable to media stored as directed.

### ***Catalog Numbers***

DCM5401- Brilliant Green Bile Lactose Broth, 500g

Revision History:

<b>Revision</b>	<b>Description</b>	<b>Effective Date</b>
02	2024 Periodic Review. No changes.	23-FEB-2024
01	Document creation	30-AUG-2021