



Dehydrated Culture Media  
Instructions for Use

## BRILLIANT GREEN BILE BROTH 2% (M124) Dehydrated Culture Media

**USE:** Brilliant Green Bile Broth 2% (Brilliant Green Lactose Bile Broth) is used for the detection of coliform organisms in foods, dairy products, water and wastewater, as well in other materials of sanitary importance.

**DESCRIPTION:** Brilliant Green Bile Broth 2% is formulated according to the American Public Health Association (APHA)<sup>1</sup> specifications for use in the confirmation of presumptive tests for coliforms. Gelatin Peptone is the carbon and nitrogen source used for general growth requirements in Brilliant Green Bile Broth 2%. Oxbile and Brilliant Green inhibit Gram-positive bacteria and many Gram-negative bacteria, other than coliforms. Lactose is a carbohydrate source. Bacteria that ferment lactose and produce gas are detected.

### FORMULA:

Gelatin Peptone.....	10.0 g/L
Oxgall.....	20.0 g/L
Lactose .....	10.0 g/L
Brilliant Green.....	13.3 mg/L
Total.....	40 g/L

Note: Medium may be adjusted and/or supplemented as required to meet performance criteria.

**Final pH:** 7.2 ± 0.2 at 25°C

### PHYSICAL APPEARANCE:

Dehydrated Appearance – Beige to greenish-beige, free-flowing, homogeneous.

Prepared Appearance – Emerald green, clear.

**PROCEDURE:** Suspend 40 g of the powder in 1L of purified water. Mix thoroughly. Autoclave at 121°C for 15 minutes. Cool broth as quickly as possible.

**EXPECTED RESULTS:** Cultural response after 48 hours at 35°C. Gas production within 48±3 hours is considered positive evidence of fermentation by coliform bacilli.

Microorganism	CFU	Growth	Gas
<i>K. aerogenes</i> ATCC™ 13048	10 <sup>2</sup> -10 <sup>3</sup>	+	+
<i>E. faecalis</i> ATCC™ 29212	10 <sup>3</sup> -2x10 <sup>3</sup>	Partial to complete inhibition	-
<i>E. coli</i> ATCC™ 25922	10 <sup>2</sup> -10 <sup>3</sup>	+	+
<i>S. aureus</i> ATCC™ 25923	10 <sup>3</sup> -2x10 <sup>3</sup>	Marked to complete inhibition	-

**STORAGE:** Store the product at 2-30°C protected from moisture for up to the expiration date.

**LIMITATIONS:** For laboratory use only. The dehydrated medium should be discarded if there are any changes in the color or if it is no longer free flowing.

**SIZES AVAILABLE:** M1241 (40 g), M1242 (500 g), M1243 (2 kg), M1244 (10 kg)

**PACKAGING:** Additional configurations are available upon request.

### REFERENCES:

1. Clesceri, Greenberg and Eaton (ed.), 1998. Standard methods for the examination of water and wastewater, 20<sup>th</sup> ed. American Public Health Association, Washington, D.C.
2. Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16<sup>th</sup> ed. American Public Health Association, Washington, D.C.
3. U.S. Food and Drug Administration. 1995. BAM, 8<sup>th</sup> ed. AOAC International, Gaithersburg, MD.
4. Horwitz (ed.). 2000. Official methods of analysis of AOAC International, 17<sup>th</sup> ed. Vol.1. AOAC International, Gaithersburg, MD.
5. Downes and Ito (ed.). 2000. Compendium of methods for the microbiological examination of foods, 4<sup>th</sup> ed. American Public Health Association, Washington, D.C.

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