



## BRILLIANT GREEN BILE AGAR

Product Number **B1802**  
Storage Temperature 24°C

### Product Description

Brilliant Green Bile Agar is recommended for enumeration of the coliform bacteria in water and wastewater. Brilliant Green Bile Agar was originally formulated as a solid medium for the direct plating of materials of sanitary importance for enumeration of coliform bacteria. Subsequently the American Public Health Association (APHA) approved this medium for the estimation of the number of coliforms.

The medium contains brilliant green and oxgall combination which is highly selective for coliforms, inhibiting most gram positive and some gram negative bacteria. Erioglaucine and basic fuchsin together indicate the pH of the medium. When the pH is neutral, the color of the medium is blue while acid production from lactose turns the medium pink. Colonies of coliform bacteria are deep red surrounded by a pink halo against the blue background of the medium.

### Components

Item	g/L
Peptic Digest of Animal Tissue	8.25
Lactose	1.90
Sodium Sulphite	0.205
Ferric Chloride	0.0295
Monopotassium phosphate	0.0153
Erioglaucine	0.0649
Basic Fuchsin	0.0776
Oxgall	0.00295
Brilliant Green	0.000295
Agar	10.15

Final pH (at 25°C) 6.9 ± 0.2

**Precautions and Disclaimer** For laboratory use only.  
Not for drug, household or other uses.

### Preparation Instructions

Suspend 20.7 grams of Brilliant Green Bile Agar with in 1000 mls of distilled water. Boil to dissolve the medium

## Product Information

completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. For plating 10 mls of water samples prepare the medium in double strength.

Note: Basic fuchsin is a potent carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.

### Storage

Store the dehydrated medium at 24°C and the prepared medium at 2-8° C. It is recommended that the medium be prepared just prior to use and when necessary to store the medium, it should be kept in the dark. The medium is sensitive to light and the color may change from deep blue to red.

### Product Profile

Appearance	Light purple colored, homogeneous, free flowing powder.	
Gelling	Firm.	
Color and Clarity	Bluish purple colored, slightly opalescent gel forms in petri plates.	
Cultural Response	Cultural characteristics observed after 18-24 hours at 35-37°C.	
Organisms	Growth	Color of Colony
<i>Enterobacter aerogenes</i>	luxuriant	pink
<i>Escherichia coli</i>	luxuriant	deep red
<i>Salmonella enteritidis</i>	luxuriant	light pink

### References

1. Compendium of Methods for the Microbiological Examination of Foods, (1984). Speck, M.L., ed. 2<sup>nd</sup> Edition APHA, Washington, D.C.

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.