

PRODUCT INFORMATION

Brilliant Green Bile Agar

Cat. No. B02-122

DESCRIPTION

Brilliant Green Bile Agar is used for the detection, isolation and enumeration of coliform bacteria in water, food and sewage. The APHA recommends the use of this medium as an indication of the extent of contamination. The selective agents in the medium are brilliant green and bile, which inhibit gram positive and most gram negative bacteria, except coliforms. Basic fuchsin and erioglaurine are pH indicators. Lactose-fermenting bacteria (*E. coli*) produce deep red colonies. Agar is the gellifying agent.

FORMULA (g/L)

Pancreatic Digest of Gelatin	8.35 g	Brilliant Green	29.5 µg
Oxbile	2.95 mg	Basic Fuchsin	77.6 mg
Monopotassium Phosphate	15.3 mg	Sodium Sulfite	25.0 mg
Lactose	1.9 g	Ferric Chloride	29.5 mg
Erioglaurine	64.9 mg	Agar	10.15 g

Final pH: 6.9 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 20.6 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

***Medium must be protected from light and used the same day it is made.**

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light to medium purple in color.
2. Visually the prepared medium is trace to slight haze, and blue in color.
3. Expected cultural response after 18-24 hours at 35 °C.

ORGANISM	RESULT
<i>Enterobacter aerogenes</i> ATCC 13048	Good Growth – Pink colonies
<i>Escherichia coli</i> ATCC 25922	Good Growth – Red colonies
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth – Colorless to light pink colonies
<i>Staphylococcus aureus</i> ATCC 25923	Partial to complete inhibition – Colorless colonies

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.