

**CM 20305 - BRILLIANT GREEN BILE BROTH 2%
 (BRILLIANT GREEN LACTOSE BILE BROTH 2%)
 (ISO 4831:2006, ISO 4832:2006)**

INTENDED USE

For detection and confirmation of coliform bacteria in water and foods.

PRODUCT SUMMARY AND EXPLANATION

BRILLIANT GREEN BILE BROTH 2% (BRILLIANT GREEN LACTOSE BILE BROTH 2%) is used for the detection of coliform organisms in foods, dairy products, water and wastewater, as well as in other materials of sanitary importance. It is formulated as per ISO 4831:2006 and is recommended for the confirmation of coliform bacteria.

During examination of water samples, growth from presumptive positive tubes showing gas in Lactose Broth or Lauryl Tryptose Broth is inoculated in Brilliant Green Bile Broth 2%. Gas formation within 48 ± 2 hours confirms the presumptive test. Gram-positive spore-formers may produce gas if the bile or brilliant green inhibition is weakened by food material

COMPOSITION

Ingredients	Gms / Ltr
Oxgall	20.000
Peptic digest animal tissue	10.000
Lactose	10.000
Brilliant green	0.013

PRINCIPLE

The media contains Peptic digest of animal tissue provides the essential nutrients for growth: nitrogen, vitamins, minerals and amino acids. Brilliant green and oxgall present in the medium inhibit gram-positive bacteria including lactose fermenting Clostridia. Production of gas from lactose fermentation is detected by incorporating inverted Durham's tube and this indicates a positive evidence of faecal coliforms since non-faecal coliforms growing in this medium do not produce gas.

INSTRUCTION FOR USE

- Dissolve 40.00 grams in 1000ml distilled water.
- Gently heat to boiling with gentle swirling to dissolve the medium completely.
- Dispense 10ml medium in culture tube containing inverted Durham's tube.
- Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
- Cool at room temperature prior to use.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Dehydrated powder : Cream to pale green, Homogeneous free flowing powder
- Appearance of Prepared medium : Emerald green coloured, clear solution without any precipitate
- pH (at 25°C) : 7.2 ± 0.2



INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Gas production	Incubation Temp.	Incubation Period
Escherichia coli	25922	50-100	Good-Luxuriant	Positive reaction	35-37°C	18-48 Hours
Enterobacter aerogenes	13048	50-100	Luxuriant	Positive reaction	35-37°C	18-48 Hours
Enterococcus faecalis	29212	50-100	None-Poor	Negative reaction	35-37°C	18-48 Hours
Staphylococcus aureus	25923	≥1000	Inhibited	-	35-37°C	18-48 Hours
Bacillus cereus	10876	≥1000	Inhibited	-	35-37°C	18-48 Hours

PACKAGING

In 100 & 500 gm packaging size.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

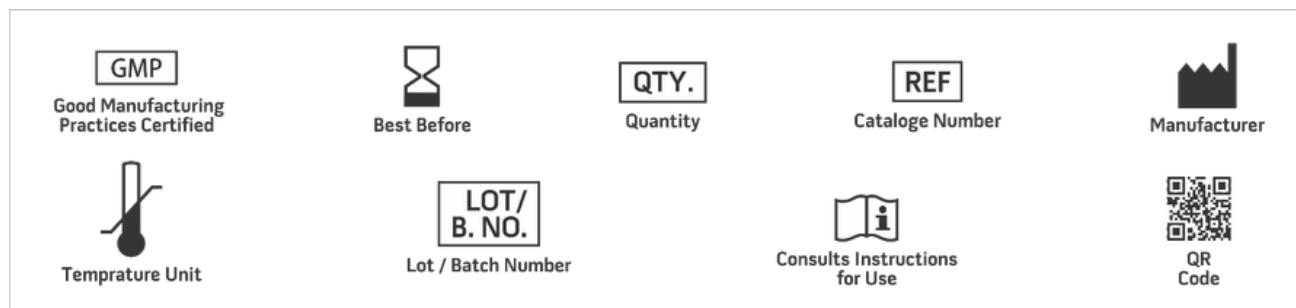
Product Deterioration: Do not use, if powder show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Wehrand Frank (ed.). Standard methods for the examination of dairy products, 17th ed. American Public Health Association, Washington, D.C. (2004).
2. U.S. Food and Drug Administration. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md. (2001).
3. Clesceri, Greenberg and Eaton (ed.). Standard methods for the examination of water and wastewater, 20th ed. American Public Health Association, Washington, D.C. (1998).
4. U.S. Food and Drug Administration. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md. (1995).



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For Lab Use Only

