CM 20306 – BRILLIANT GREEN BILE BROTH 2% (BRILLIANT GREEN LACTOSE BILE BROTH 2%) (VEG.)

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

PRODUCTSUMMARYANDEXPLANATION
Brilliant Green Veg Broth 2% is specially developed using Veg peptone to avoid BSE/TSE risks associated with animal origin peptone. This medium is the modification of Brilliant Green Bile Broth 2% which is used for presumptive identification and confirmation of coliform bacteria.
Production of gas from lactose fermentation detected by incorporating inverted Durham's tube, indicates a positive evidence of faecal coliforms since non faecal coliforms growing in this medium do not produce gas. During examination of water samples, growth from presumptive positive tubes showing gas in Lactose Veg Broth or Lauryl Tryptose Veg Broth is inoculated in Brilliant Green Veg Broth 2% wherein gas formation within 48 ± 2 hours confirms the presumptive test.

COMPOSITION

Ingredients	Gms / Ltr
Veg peptone	25.000
Lactose	10.000
Synthetic detergent No. II	5.000
Brilliant green	0.0133

PRINCIPLE
Brilliant green and synthetic detergent No. II present in the medium inhibits gram-positive bacteria. Lactose acts as a source of energy for the medium.

INSTRUCTIONFORUSE
Dissolve 40 grams in 1000 ml distilled water.
Heat if necessary to boiling to ensure complete solution. Mix well.
Distribute in fermentation tubes containing inverted Durham's tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Greenish yellow coloured, 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
Culturalcharacteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Gas	Incubation Temperature	Incubation Period

Bacillus cereus	10876	50-100	Inhibited	Negative	35-37°C	18-48 Hours
Enterobacter aerogenes	13048	50-100	Luxuriant	Positive	35-37°C	18-48 Hours
Enterococcus faecalis	29212	50-100	None-poor	Negative	35-37°C	18-48 Hours
Escherichia coli	25922	50-100	Luxuriant	Positive	35-37°C	18-48 Hours
Staphylococcus aureus	25923	50-100	Inhibited	Negative	35-37°C	18-48 Hours

PACKAGING:

Inpacksizeof100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°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.

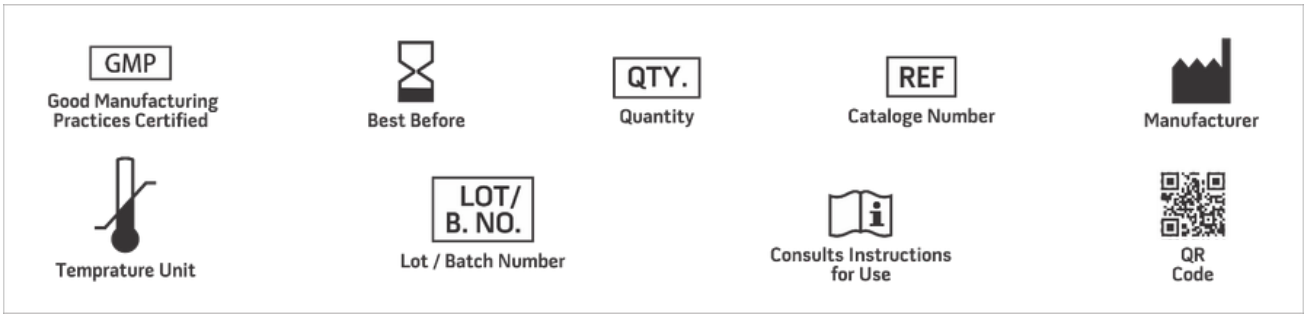
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. McCrady andLangerin, 1932, J. Dairy Science, 15:321.
2. McCrady, 1937, Am. J. Publ. Health, 27:1243.



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

*For LabUse Only