



## **Product Data Sheet**

### **VIOLET RED BILE BROTH**

**Product No.** GB-DCM-00023-1A

### **INTENDED USE**

For detection and enumeration of coliform bacteria in water and food.

### **PRODUCT SUMMARY**

Violet Red Bile Broth, a modification of MacConkeys original formulation is used for the enumeration of coli-aerogens bacterial group. It relies on the use of the selective inhibitory components crystals violet and bile salts and the indicator system lactose, and neutral red. Thus, the growth of many unwanted organisms is suppressed, while tentative identification of sought bacteria can be made. Lactose non-fermenters and late lactose fermenters produce pale coloured medium. Other related gram- negative bacteria can be suppressed by incubation at >42°C or by anaerobic incubation. Incubation may be carried out at >42°C for 18 hours, 32°C for 24-48 hours or 4°C for 10 days depending on the temperature characteristics of the organisms to be recovered. Violet red bile Broth is similar to VRBA, except agar that is recommended by APHA.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Peptic digest of animal tissues	7.000
Yeast extract	3.000
Bile salts mixture	1.500
Lactose	10.000
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.002

### **PRINCIPLE**

Peptic digest of animal tissue and yeast extract serve as sources of carbon, nitrogen, vitamins and other essential growth nutrients. Lactose is the fermentable carbohydrate, utilization of which leads to the production of acids. Neutral red indicator detects the acidity so formed. Crystal violet and bile salts mixture help to inhibit the accompanying gram-positive and unrelated flora. Sodium chloride maintains the osmotic equilibrium. Further biochemical tests are necessary for positive identification.

### **DISPOSAL**

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

**Goslar Biotech**, 255A Barking Road East Ham, London E6 1LB, United Kingdom  
Email: [info@goslarbiotech.com](mailto:info@goslarbiotech.com), Website: [www.goslarbiotech.com](http://www.goslarbiotech.com)

### INSTRUCTION FOR USE

- Dissolve 26.53 grams in 1000 ml distilled water.
- Heat with stirring to boiling to dissolve the medium completely, do not autoclave.
- Cool to 45°C and dispense into sterile tubes containing the inoculum.

### QUALITY CONTROL SPECIFICATIONS

**Appearance of Powder :** Light yellow to pinkish beige homogeneous free flowing powder.

**Appearance of prepared medium:** Reddish purple coloured clear solution in tubes.

**pH (at 25°C) :** 7.4 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Color of the colony	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Luxuriant	Pink to pinkish red	35-37°C	18-24 Hours
Enterobacter aerogenes	13048	50-100	Luxuriant	Pink to pinkish red	35-37°C	18-24 Hours
Salmonella Enteritidis	13076	50-100	Luxuriant	Colourless to orangish yellow	35-37°C	18-24 Hours
Staphylococcus aureus	25923	>10 <sup>3</sup>	Inhibited	-	35-37°C	18-24 Hours

### 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.

**This product is for research use only.**