

# PRODUCT INFORMATION



## Violet Red Bile Agar

Cat. No. V22-100

Date of Issue:  
10/01/17

### DESCRIPTION

Violet Red Bile Agar is used for the detection and determination of coliforms in food, milk, water, and other sanitary materials. It is a selective medium which detects the growth of lactose fermenting coliforms. Neutral red within this formulation acts as a pH indicator while Crystal Violet and Bile Salts inhibit the growth of gram-positive microorganisms. Coliform colonies lower the pH of the medium subsequently causing their colonies to look red (Neutral Red Dye) and to precipitate the bile salts.

### PREPARATION

Mix 41.5 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for two minutes. DO NOT AUTOCLAVE. Cool to 45 to 46°C and dispense 15-20 mL into 100 mm petri dishes containing inoculum. After solidification of the inoculated medium, evenly add a cover of 4 mL of the cooled (45-46°C) agar medium.

#### Formula\* per Liter:

Pancreatic Digest of Gelatin .....	7.0g
Bile Salt #3.....	1.5g
Sodium Chloride .....	5.0g
Neutral Red.....	0.03g
Crystal Violet.....	0.002g
Yeast Extract .....	3.0g
Lactose .....	10.0g
Agar .....	15.0g

**Final pH:** 7.4 ± 0.2 at 25°C

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

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and light red-beige.
2. Visually the prepared medium is clear to slightly hazy and red-purple.
3. Expected cultural response after 18-24 hours at 35°C.

#### Organism:

*Proteus mirabilis* ATCC® 12453  
*Salmonella typhimurium* ATCC® 14028  
*Escherichia coli* ATCC® 25922  
*Enterococcus faecalis* ATCC® 29212  
*Enterobacter aerogenes* ATCC® 13048

#### Result:

Growth, Colorless colonies  
Growth, Colorless colonies  
Growth, Pink to red-purple colonies, Bile precipitate  
Inhibition  
Growth, Pink to red colonies, Bulls eye

### 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.