PRODUCT INFORMATION

Violet Red Bile Agar

Cat. No. V22-100

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.

FORMULA (g/L)

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

Final pH: 7.4 ± 0.2 at 25 ºC

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

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 45-46 ºC and dispense 15-20 mL into 100 mm petri dishes containing inoculum. After solidification of the inoculated medium, evenly add a cover of another 4 mL of the cooled (45-46 ºC) agar medium.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing with lumps 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 ºC.

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ORGANISM	RESULT
Proteus mirabilis ATCC 12453	Good Growth – Colorless colonies
Salmonella typhimurium ATCC 14028	Good Growth – Colorless colonies
Escherichia coli ATCC 25922	Good Growth – Pink to red-purple, Bile precipitate
Enterobacter aerogenes ATCC 13048	Good Growth – Pink to red, Bulls eye
Enterococcus faecalis ATCC 29212	Inhibited

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.

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