

PRODUCT INFORMATION

Violet Red Bile Glucose Lactose Agar

Cat. No. V22-105

DESCRIPTION

Violet Red Bile Glucose Agar is used for the detection and determination of *Enterobacteriaceae* in food and dairy products. The *Enterobacteriaceae* family includes lactose-fermenting coliforms and non-lactose fermenting species like *Salmonella* and *Shigella*. Crystal Violet and Bile Salts inhibit the growth of Gram-positive microorganisms. Pancreatic Digest of Gelatin and Yeast Extract provide nitrogen, vitamins, minerals, and amino acids essential for bacterial growth. Bacteriological Agar is the gelling agent. Dextrose and Lactose are the fermentable carbohydrates and Sodium Chloride supplies essential electrolytes and maintains the osmotic equilibrium.

FORMULA (g/L)

Pancreatic Digest of Gelatin	9.0 g	Yeast Extract	5.0 g
Dextrose	10.0 g	Lactose	9.7 g
Bile Salt #3	1.5 g	Sodium Chloride	5.0 g
Neutral Red	0.03 g	Crystal Violet	0.002 g
Agar	11.5 g		

Final pH: 7.4 ± 0.2 at 25 °C

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

PREPARATION

Mix 51.5 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. DO NOT AUTOCLAVE.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing, and beige with faint pink tint.
2. Visually the prepared medium is trace to light haze and medium to dark reddish purple.
3. Expected cultural response after 18-24 hours at 35°C.

ORGANISM	RESULTS	
<i>Escherichia coli</i> ATCC 25922	Good Growth	Pink Colonies, Bile Precipitate
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth	Pink Colonies, Bile Precipitate
<i>Shigella flexneri</i> ATCC 12022	Good Growth	Pink Colonies, Bile Precipitate
<i>Staphylococcus aureus</i> ATCC 25923	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.