

Violet Red Bile Glucose Agar

Product No.	Product Category	Specification
HCM006	Dehydrated Culture Medium	500g/bottle
022223P1	Granular Medium	250g/bottle

Intended Use

For detection and enumeration of *Enterobacteriaceae*.

Principle and Interpretation

Gelatin peptone and yeast extract provide nitrogenous, carbonaceous compounds, long chain amino acids, vitamins and other nutrients essential for bacterial metabolism. This media is selective due to presence of the inhibitors; bile salts positive organisms especially Staphylococci. Neutral red indicator helps to detect glucose fermentation. Glucose fermenting and crystal violet. Crystal violet inhibits gram-strains produce red colonies with pink-red halos in the presence of neutral red. Sodium chloride maintains the osmotic equilibrium in the medium. The red colour is due to absorption of neutral red and a subsequent colour change of the dye when the pH of medium falls below 6.8.

Formulation

Ingredients	/liter
Yeast extract	3.0g
Pancreatic digest of gelatin	7.0g
Bile salts	1.5g
Sodium chloride	5.0g
Glucose monohydrate	10.0g
Neutral red	0.03g
Crystal violet	0.002g
Agar	15.0g
pH7.4±0.2 at 25°C	

Preparation

Suspend 41.5 g in 1 L of distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Do not autoclave. Cool to 50°C and pour into sterile petri dishes.

Quality Control

Cultural characteristics observed after incubation at 35-37°C for 24-48 hours.

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Technical Data Sheet



Quality control strains	Growth	Characteristics
<i>Salmonella typhimurium</i> ATCC14028	Good, PR \geq 0.7	Purplish red colony
<i>Escherichia coli</i> ATCC8739	Good, PR \geq 0.7	Purplish red colony
<i>Pseudomonas aeruginosa</i> ATCC27853	-	Light red
<i>Staphylococcus aureus</i> ATCC29212	Inhibited, G \leq 1	-

Storage and Shelf Life

2-30°C, Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

Revision

On June 14, 2024

References

ISO 21528-1:2017

ISO 21528-2:2017

USP.

EP.

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