

Product Name :
Bile Salts Mixture

Product Code :
NLAB-CHEMICALSIND20008

Description :

Bile Salts Mixture

Technical Specification :

Bile Salt Mixture is recommended for use is microbiological culture media for selective isolation and cultivation of bile tolerant enteric bacteria. It is recommended for use in MacConkey Agar, SS Agar, Violet Red Bile Agar. It selectively inhibits gram-positive and spore bearing microorganisms without interfering with the growth of enteric bacilli. In MacConkey Agar, Violet Red Bile Agar and SS Agar, very little precipitate is observed around coliform colonies facilitating the detection of lactose nonfermenting colonies.

Principle And Interpretation

Bile Salts Mixture is obtained by hydrolysis of bile salts. It is a white coloured, free flowing, fine powder. It is freely soluble in water and forms a colourless, clear solution that produces foam if shaken strongly. It is equivalent to Bile Salt, for use in Bacteriological culture media as selective inhibitory agent.

Quality Control

Appearance: White to cream Homogenous Free flowing powder ,having Characteristic odour but not putrescent.

Reaction: Reaction of 1% w/v aqueous solution at 25°C.

pH: 7.00- 9.00

Solubility: Soluble in distilled water, insoluble in alcohol and ether.

Clarity: 1% aqueous solution is light straw coloured, clear and free from extraneous matter.

Cultural response: Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey Agar, using Bile Salt Mixture as an ingredient.

Chemical Analysis:- Cholic acid: 45.0%, Loss on drying: 6.0%.

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