



Bile Salts Mixture

RM009

Bile Salt Mixture is recommended for use as 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 equivalent to Bile Salt No.3, for use in Bacteriological culture media as selective inhibitory agent. 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.

Quality Control

Appearance

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

Solubility

Soluble in distilled water, insoluble in alcohol and ether.

Clarity

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

Reaction

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

pH

7.00- 9.00

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey Agar (M081), using Bile Salt Mixture as an ingredient.

Cultural Response

Organism	Growth	Colour of colony
Cultural response		
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink to red with bile precipitate
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pink to red
<i>Enterococcus faecalis</i> ATCC 29212	Fair to good	Colourless to pink
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless
<i>Salmonella Paratyphi A</i> ATCC 9150	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022	Fair to good	Colourless
<i>Salmonella Paratyphi B</i> ATCC 8759	Luxuriant	Colourless

<i>Salmonella Enteritidis</i> ATCC 13076	Luxuriant	Colourless
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Colourless
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	

Chemical Analysis

Cholic acid Content	>= 45.0%
Loss on drying	<= 6.0%

Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.

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