



Bile Salts Mixture, Certified

CR009

Principle And Interpretation

Bile Salts Mixture, Certified is recommended for use in microbiological culture media for selective isolation and cultivation of bile tolerant enteric bacteria. Bile Salts Mixture is obtained by hydrolysis of bile salts.

Quality Control

Appearance

White, homogeneous, free flowing powder with characteristic odour.

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

7.50- 8.50

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey Agar (M081), using Bile Salts Mixture, Certified 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	$\geq 45.0\%$
Loss on drying	$\leq 6.0\%$

Storage and Shelf Life

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

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