



Bile Salts Mixture, Certified

CR009

Principle And Interpretation

Bile Salts Mixture, Certified is a refined grade of Bile Salt mixture recommended for use in microbiological culture media for selective isolation and cultivation of bile tolerant enteric bacteria. It 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
<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</i> Paratyphi A ATCC 9150	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022	Fair to good	Colourless
<i>Salmonella</i> Paratyphi B ATCC 8759	Luxuriant	Colourless
<i>Salmonella</i> Enteritidis ATCC 13076	Luxuriant	Colourless
<i>Salmonella</i> Typhi 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 between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources. Seal the container tightly after use.

Disclaimer :

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