



Bile Salts, Certified

CR008

Principle And Interpretation

Bile Salts, Certified is refined product obtained by precipitating the bile salts with hydrochloric acid and separated from bile pigments and other substances in crude bile. It is used as selective inhibitory agent in bacteriological culture media.

Quality Control

Appearance

Light yellow to yellow coloured(may have slight green tinge), homogeneous, free flowing powder.

Solubility

Soluble in distilled/purified water.

Reaction

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

pH

6.00- 7.00

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.

Chemical Analysis

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	Pale pink to red
<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.

Disclaimer :

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