



Bile Salts, Certified

CR008

Principle And Interpretation

It is refined product obtained by precipitating the bile salts with hydrochloric acid and separated from bile pigments and other substances in crude bile. It allows growth of bile tolerant enteric microorganisms at a concentration of 0.25-0.5%, used in media like MacConkey Agar/Broth, SS Agar, VRBA, Fluid Tetrathionate Medium, etc.

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.

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	Pale pink to red
<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 >= 45.0%

Loss on drying <= 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 of ignition. Seal the container tightly after use.

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Disclaimer :

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