



## Bile Salts

RM008

### Principle And Interpretation

Bile Salts is extracted under controlled conditions from purified fresh bile, to be used in bacteriological culture media as a selective inhibitory agent for isolation and identification of pathogens, for example MacConkey Agar/Broth, Fluid Tetrathionate Medium, etc.

### Quality Control

#### Appearance

Yellow to brownish yellow homogenous free flowing powder

#### Solubility

Freely soluble in distilled/purified water.

#### Clarity

1% w/v aqueous solution is clear and free from extraneous matter.

#### Reaction

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

#### pH

5.50- 7.50

#### Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MaConkey Agar (M081) using Bile salts 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 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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