



## Bile Salts

RM008

### Intended use

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. It is used in media for example MacConkey Agar/Broth, SS Agar, VRBA, Fluid Tetrathionate Medium, etc.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

### 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.
- **pH** : pH of 1% w/v aqueous solution at 25°C 5.5 - 7.5
- **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(WDCM 00013)	Luxuriant	Pink to red with bile precipitate
* <i>Klebsiella aerogenes</i> ATCC 13048 (WDCM 00175)	Luxuriant	Pink to red
<i>Enterococcus faecalis</i> ATCC 29212(WDCM 00087)	Fair to good	Colourless to pale pink

**Cultural Response**

Organism	Growth	Colour of colony
<i>Proteus hauseri</i> ATCC 13315	Luxuriant	Colourless
<i>Salmonella enterica</i> subsp. <i>Enterica</i> Paratyphi A ATCC 9150	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022(WDCM 00126)	Fair to good	Colourless
<i>Salmonella enterica</i> subsp. <i>Enterica</i> Paratyphi B ATCC 8759	Luxuriant	Colourless
<i>Salmonella enterica</i> subsp. <i>enterica</i> Enteritidis ATCC 13076 (WDCM 00030)	Luxuriant	Colourless
<i>Salmonella enterica</i> subsp. <i>enterica</i> Typhi ATCC 6539	Luxuriant	Colourless
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (WDCM 00034)	Fair-good	Pale pink -red

**Chemical Analysis :**

Cholic acid content :  $\geq 45.0$  %

Loss on drying :  $\leq 6.00$  %

**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.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.



Storage temperature



Do not use if package is damaged



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**.Disclaimer :**

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