Bile Salts Mixture

RM009

Intended use

Bile Salt Mixture is obtained by hydrolysis of bile salts to retain inhibitory properties. Recommended for use in Bacteriological culture media as selective inhibitory agent. It is a white coloured, free flowing, and fine powder freely soluble in water and forms a colourless, clear solution that produces foam if shaken strongly. When incorporated into culture media, bile salts do not affect the colour of indicator dyes or their subsequent change in colour.

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 :** White to cream homogeneous free flowing powder characteristic odour but not putrescent
- **Solubility :** Soluble in distilled water, insoluble in alcohol and ether.
- **Clarity :** 1% aqueous solution is light straw coloured, clear and free from extraneous matter.
- **pH :** pH of 1% w/v aqueous solution at 25°C 7.00 - 9.00
- **Cultural response :** Cultural response observed after an incubation at 35-37ºC for 18-24 hours by preparing MacConkey Agar (M081), using Bile Salt Mixture as an ingredient.

Organism	Growth	Colour of colony
Escherichia coli ATCC 25922 (WDCM 00013)	Luxuriant	Pink to red with bile precipitate
**Klebsiella aerogenes* ATCC 13048 (WDCM 00175)	Luxuriant	Pink to red
Enterococcus faecalis ATCC 29212 (WDCM 00087)	Fair to good	Colourless to pale pink

Organism	Growth	Colour of Colony
Proteus hauseri ATCC 13315	Luxuriant	Colourless
Salmonella enterica subsp. *Enterica* Paratyphi A ATCC 9150	Luxuriant	Colourless
Shigella flexneri ATCC 12022 (WDCM 00126)	Fair to good	Colourless
Salmonella enterica subsp. *Enterica* Paratyphi B ATCC 8759	Luxuriant	Colourless
Salmonella enterica subsp. *enterica Enteritidis* ATCC 13076 (WDCM 00030)	Luxuriant	Colourless
Salmonella enterica subsp. *enterica* Typhi ATCC 6539	Luxuriant	Colourless
Staphylococcus aureus subsp. *aureus* ATCC 25923 (WDCM 00034)	Inhibited	-

Chemical Analysis :

Cholic acid content : ≥45.00 %

Loss on drying : ≤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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