

Technical Information

Bile Salts Mixture

Product Code: BA2009

Principle & Interpretation

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 7.0-9.0

Cultural response : Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey Agar (DM1081), using Bile Salt Mixture 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
<i>Proteus hauseri</i> ATCC 13315	Luxuriant	Colourless



Dehydrated Culture Media
Bases / Media Supplements

<i>Salmonella enterica</i> subsp. <i>Enterica</i> Paratyphi AATCC 9150	Luxuriant	Colourless
<i>Shigella flexneri</i> ATCC 12022 (WDCM 00126)	Fair to good	Colourless
<i>Salmonella enterica</i> subsp. <i>Enterica</i> Paratyphi BATCC 8759	Luxuriant	Colourless
<i>Salmonella enterica</i> subsp. <i>enterica</i> <i>Enteritidis</i> 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> ATCC25923 (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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.