



Bile, Bacteriological

RM621

Principle And Interpretation

It is prepared by concentration, purification and spray drying from freshly collected animal bile. It is used for bacteriological purpose in culture media as a selectively inhibitory agent. It selectively inhibits bacteria not growing in enteric environment and as such recommended in media used for cultivation of enteric pathogens. It is a greenish yellow coloured, homogeneous, fine powder having characteristic bile like odour with partly bitter, partly sweet and disagreeable taste. It freely dissolves in distilled water. Aqueous solution is clear, yellow coloured and produces foam if shaken strongly. The solution remains clear after autoclaving without developing any precipitate, or scum on surface of the liquid. It is equivalent to Ox Bile, Bacteriological.

Quality Control

Appearance

Yellow to greenish yellow homogenous free flowing powder having bile like odour.

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

6.50 - 7.50

Cultural Response

Cultural response after an incubation at 35-37°C for 18-48 hours by preparing Brilliant Green Bile Broth 2% (M121) using Bile, Bacteriological as an ingredient.

Cultural Response

Organism	Growth	Gas
<i>Bacillus cereus</i> ATCC 10876	Inhibited	-
<i>Escherichia coli</i> ATCC 25922	Good-luxuriant	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Good-luxuriant	Positive reaction
<i>Enterococcus faecalis</i> ATCC 29212	None-poor	Negative reaction
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	-

Chemical Analysis

Bile Acids (as cholic acid)	$\geq 45.0\%$
Loss on drying	$\leq 5.40\%$
Sodium chloride	$\leq 5.50\%$
Residue on ignition	$\leq 20.0\%$
Water(H ₂ O)	$\leq 2.0\%$

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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