

221 M –SODIUM CHOLATE (A selective inhibitory agent used in Culture Media)

INTENDED USE

For used as a selective inhibitory agent of microbiological culture media.

PRODUCT SUMMARY AND EXPLANATION

Sodium cholate is a bile acid salt and an ionic detergent and used as selective inhibitory agent for bacteriological culture media. It interferes with the growth and incorporation of glucose into various cellular fractions and inhibits flagellum formation in gram-negative bacteria. It is White colour free flowing powder Sparingly soluble in water and alcohol.

PRINCIPLE

It is selective inhibitory agent for used as bacteriological culture media.

INSTRUCTION FOR USE

A bile acid formed by bacterial action from cholate. It is usually conjugated with glycine or taurine. Deoxycholic acid acts as a detergent to solubilize fats for intestinal absorption, is reabsorbed itself, and is used as a choleric and detergent.

QUALITY CONTROL SPECIFICATIONS

Appearance	White colour free flowing powder.
Solubility (2% soln. at 25°C)	: Sparingly soluble in water and alcohol.
Clarity (1% Soln. at 121°C)	: Clear solution. No ppt.
pH (2% Soln. at 25°C)	: 7.5 – 9.5
Loss on drying (at 105°C)	: NMT – 5.0%
Heavy Metals (Pb)	: NMT – 20 ppm
Assay	: NLT – 98.0%
Microbial Test	: Passes Test

INTERPRETATION

Cultural Characteristic observed in 2% sodium cholate and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
<i>Vibrio cholerae</i>	15748	Good - Luxuriant	yellow
<i>Vibrio fluvialis</i>	33809	Good - Luxuriant	yellow
<i>Vibrio parahaemolyticus</i>	17802	Good - Luxuriant	bluish green
<i>Vibrio vulnificus</i>	29306	fair-good	greenish yellow
<i>Enterococcus faecalis</i>	29212	inhibited	-
<i>Escherichia coli</i>	8739	inhibited	-
<i>Proteus vulgaris</i>	13315	inhibited	-
<i>Shigella flexneri</i>	12022	inhibited	-

PACKAGING:

Standard packing is 25gm, 100gm, in glass bottle. After packing tightly closed in a dry and well- ventilated place.

STORAGE

Store at room temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place.



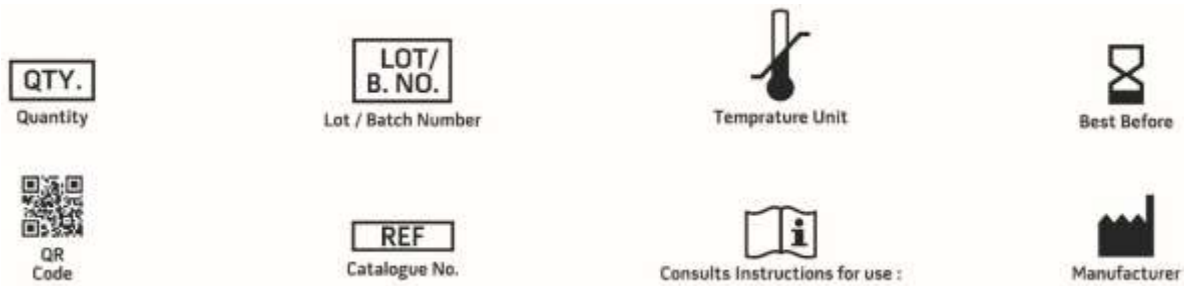
Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

After use, contact a licenced professional waste disposal service to dispose off this material. Dispose of as unused product.

REFERENCES:NA



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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