

Bile Salts No. 3 (NCM0210)

Intended Use

Bile Salts No. 3 is a mixture of bile salts for use in preparing microbiological culture media in a laboratory setting. Several media containing Bile Salts No. 3 are recommended in standard methods for multiple applications. Bile Salts No. 3 is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Bile Salts No. 3 is a refined bile salts mixture, comprising mainly sodium cholate and sodium desoxycholate. Its primary use is as a selective agent for the isolation of Gram-negative micro-organisms, inhibiting Gram-positive cocci. Bile Salts No. 3 is prepared especially for use in MacConkey Agar and Violet Red Bile Agar. This fraction of bile is highly active allowing maximum selection of organisms of enteric origin at relatively low concentrations (0.15%) and is soluble in distilled or deionized water and neutral to slightly alkaline in pH.

Precaution

Refer to SDS

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing and white.

Prepared Appearance (1.0% or 2.0 % wt/vol): Prepared solution is clear, colorless to light amber without a precipitate.

Sodium cholate: 45 - 55%

Sodium deoxycholate: 45 - 55%

pH (1% Solution at 25°C): 7.5 to 8.5

(2% Solution at 25°C): 7.5 to 9.0

Microbiology

Growth Supporting Properties: Hektoen Enteric Agar: Satisfactory

Test Procedure

Refer to appropriate references for specific procedures using Bile Salts No. 3.

Results

Refer to appropriate references for test results.

Expiration

Refer to expiration date stamped on the container. The product should be discarded if it is not free flowing, or if medium has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Storage

Store product at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

Technical Specification Sheet



References

1. Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.). 2017. Standard methods for the examination of water and wastewater, 23rd ed. American Public Health Association, Washington, D.C.
2. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalmanualBAM/default.htm.
3. Vanderzant, C., and D. F. Splittstoesser (eds.). 2015. Compendium of methods for the microbiological examination of food, 4th ed. American Public Health Association, Washington, D.C.

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