

Limitations

1. This method had limitations due to the inability to obtain growth after subculturing from positive tubes incubated at 46°C, as acidity and high temperature resulted in death of the culture within 24-48 hours.

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

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured, clear solution without any precipitate

Reaction

Reaction of 2.85% w/v aqueous solution at 25°C. pH : 6.8±0.2

pH

6.60-7.00

Cultural Response

Cultural characteristics observed after an incubation at 45.5 to 46°C for 24 - 48 hours.

Organism	Inoculum (CFU)	Growth	Gas
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	poor	negative reaction

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

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 (4,5).

Reference

1. Norton C. F., 1940, Microbiology, 2nd Ed., Addison Wesley Publishing Company.
2. Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C., Winn W. C. Jr., 1992, Colour Atlas and Textbook of Diagnostic Microbiology, 4th Ed, J. B. Lippincott Company.
3. Eijkman, 1904, Centr. Bakt., 11th Abst., 37:742.
4. Perry C. A., 1939, Food Research, 4:381.
5. Perry C. A. and Hajna A. A., 1933, J. Bacteriol., 26:419.
6. Standard Methods for the Examination of Water and Wastewater, 11th Ed., 1960, APHA, N.Y.

Revision : 1 / 2011

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