Bile Broth

LQ079

Intended Use:

Sterile, ready prepared medium for cultivation of members of the *Enterobacteriaceae.*

Composition**

Ingredients	g / L
Peptone	20.000
Sodium taurocholate	5.000
Sodium chloride	5.000
Final pH (at 25°C)	7.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

1. This product is available in multiple pack sizes of 25 and 50 bottles containing 10ml of sterile medium in each bottle.
2. The bottles when supplied are intact. Ensure that all bottles are in upright position and there is no leakage or any manufacturing defect or contamination.
3. User may remove the desired number of bottles from the box as per their requirement.
4. It should be handled by trained person wearing appropriate personal protective equipment (PPE) and sterile gloves.
5. Place the bottles on sterile surfaces such as laminar air flow or sterile working bench.
6. Label them accordingly.
7. Disinfect the outer surface of cap or closures with suitable disinfectant example 70% IPA.
8. Observe aseptic techniques and standard microbiological methods while processing and inoculation of samples or cultures into this media.
9. On completion of inoculation tighten the cap and close it carefully.
10. Incubate at specified temperature and time or as desired.
11. Follow good lab practices for procedures and disposal.

Principle And Interpretation

Enterobacteriaceae inhabit a wide variety of niches that include the human gastrointestinal tract and various environmental niches. When blood samples from a patient with suspected enteric fever is submitted for the widal test, it is useful as a routine to culture the clot after separation of serum (1). Peptone serves as a source of nitrogen, carbon, long chain amio acids and other essential amino acids. Sodium taurocholate would inhibit majority of Gram-positive species. Sodium chloride maintains the isotonicity of the medium. Whereas addition of streptokinase solution causes rapid clot lysis with release of bacteria trapped in the clot (2).

Type of specimen

Clinical samples - Blood clots

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (3,4). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic Use. For professional use only. 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. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Biochemical characterization is carried out from pure isolates for complete identification.

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

Sterile clear Bile Broth in glass bottles.

Colour

Light yellow coloured clear solution

Quantity of medium

10 ml of medium in bottles.

Sterility Check

Passes release criteria

pH

pH

7.40- 7.80

Cultural Response

Cultural characteristics observed after incubation at 35 - 37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 25922 (00013*)	50-100	luxuriant
# *Klebsiella aerogenes* ATCC 13048 (00175*)	50-100	luxuriant
Salmonella Typhimurium ATCC 14028 (00031*)	50-100	luxuriant
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00034*)	>=10^4	inhibited

Key : (*) Corresponding WDCM numbers, (#) Formerly known as *Enterobacter aerogenes*

Storage and Shelf Life

Store between 2-8°C. 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 (3,4).

Reference

1.Colle, J.G., Duguid J.P., Fraser A.G. and Marmion, B.P. (Eds.) 1989 Mackie and McCartney Practical Medical Microbiology, Vol. 2, p:134 Longman Group, UK.

2.Watson, K.C. 1955, Isolation of Salmonella Typhi from the blood stream. J. of ,Lab and Clinical Medicine 46:128-134.

3.Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.

4.Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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Packaging

LQ079-25X10ML - Bile Broth
LQ079-50X10ML - Bile Broth

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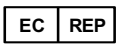

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Single sterile barrier system

Do not re-use

***In vitro* diagnostic medical device**

CE Marking

Contains biological material of animal origin

Storage temperature

Do not use if package is damaged

Disclaimer :

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