

TMTH 003- ENTEROBACTERIA ENRICHMENT BROTH, MOSSEL (USP/EP/BP/JP/IP)

INTENDED USE

For the enrichment of bile tolerant organisms in accordance with the harmonized methods

PRODUCT SUMMARY AND EXPLANATION

EE Media was formulated by Mossel et al and is recommended as an enrichment medium for Enterobacteriaceae in bacteriological examination of foods and animal feed stuffs. Enterobacteriaceae can be injured in food processing procedures, which include exposure to low temperature, sub marginal heat, drying, radiation, preservatives or sanitizers. Recovery relies on proper resuscitation of damaged cells. Enterobacteria Enrichment Broth Mossel is used as an enrichment broth, providing a rich environment for the recovery of damaged or injured cells. This medium is prepared in accordance with the harmonized method of USP/EP/BP/JP/IP.

COMPOSITION

Ingredients	Gms / Ltr
Dehydrated Ox bile	20.000
Peptone	10.000
Disodium hydrogen phosphate dihydrate	8.000
Glucose monohydrate	5.000
Potassium dihydrogen phosphate	2.000
Brilliant green	0.015

PRINCIPLE

Peptone and dextrose favour the growth of most members of Enterobacteriaceae, thus ensuring the detection of *Salmonella* and other lactose negative organisms. Brilliant green and Bile salts are the selective agents which inhibit gram-positive bacteria. Acid production causes the colour change from green to yellow, while a negative reaction results in no colour change and the medium remains green. Phosphates provide good buffers in the medium.

INSTRUCTION FOR USE

Inoculate the sample and incubate at specified temperature and time.

QUALITY CONTROL SPECIFICATIONS

Appearance of prepared medium	:	Emerald green coloured solution
Quantity of Medium	:	10 ml of medium in tubes.
pH (at 25°C)	:	7.2 ± 0.2
Sterility Check	:	Passes release criteria

INTERPRETATION

Culture characteristics observed after incubation period



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temp.	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Escherichia coli</i>	8739	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Pseudomonas aeruginosa</i>	9027	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Pseudomonas aeruginosa</i>	25783	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Enterobacter aerogenes</i>	13048	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Proteus mirabilis</i>	25933	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Salmonella enteritidis</i>	13079	50-100	Luxuriant	30-35°C	24-48 Hours
<i>Staphylococcus aureus</i>	25923	≥1000	Inhibited	30-35°C	24-48 Hours
<i>Staphylococcus aureus</i>	6538	≥1000	Inhibited	30-35°C	24-48 Hours

PACKAGING:

Pack of 25 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.

Pack of 50 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.

STORAGE

On receipt, store tubes in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for the recommended incubation times. Allow the medium to warm to room temperature before inoculation.

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.

REFERENCES

1. Mossel D. A. A., and Harrewijn G. A., 1972, Alimenta II, 29-30
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3. Van Schothorst M. et al, 1966, Vet Med., 13(3):273.
4. The United States Pharmacopoeia, 2011, The United States Pharmacopoeial Convention. Rockville, MD.
5. British Pharmacopoeia, 2011, The Stationery office British Pharmacopoeia
6. European Pharmacopoeia, 2011 European Dept. for the quality of Medicines.
7. Japanese Pharmacopoeia, 2008.



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

***For Lab Use Only**

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