

TMKH 005 – EE BROTH MOSSEL (ENTEROBACTERIA ENRICHMENT BROTH, MOSSEL) (USP/EP/JP/BP/IP)

INTENDED USE

For selective enrichment of Enterobacteriaceae.

PRODUCT SUMMARY AND EXPLANATION

The family Enterobacteriaceae consists of *Salmonella*, *Shigella* and other enteric pathogens. These organisms find entry into the food system through faecally contaminated water. Majority of these organisms may be eliminated under the stringent food processing parameters. But some of these organisms may become sub lethally injured during the changes in pH, exposure to steam or heat and other unfavourable conditions. Recovery relies on proper resuscitation of damaged cells. The resuscitation procedure is recommended for dried foods, animal feeds and semi-preserved foods. Mossel et al formulated EE Broth, Mossel, which is recommended as an enrichment medium for bile tolerant gram-negative bacteria in the biological examination of foods, animal feed stuffs. This medium is prepared as per European Pharmacopeia and is in accordance with the harmonized method of USP/BP/EP/JP/IP).

COMPOSITION

Ingredients	Gms / Ltr
Dehydrated ox-bile	20.000
Pancreatic digest of gelatin	10.000
Disodium hydrogen phosphate, dihydrate	8.000
Glucose	5.000
Potassium dihydrogen phosphate	2.000
Brilliant green	0.015

PRINCIPLE

Pancreatic digest of gelatin and glucose allows the growth of most of the members of Enterobacteriaceae. Brilliant green and dehydrated ox-bile are inhibitory agents for gram-positive bacteria. Phosphates act as a good buffering agent and neutralizes acids produced by lactose fermenters that otherwise would adversely affect the growth of the organism. Lactose is replaced by glucose in this medium as lactose negative, anaerogenic lactose-positive or late lactose fermenting Enterobacteriaceae are often missed by the standard Coli-aerogenes test.

INSTRUCTION FOR USE

Label the ready to use bottle. Inoculate the sample and Incubate at specified temperature and time.

QUALITY CONTROL SPECIFICATIONS

Appearance of Prepared media : Emerald green coloured, clear solution.
Sterility test : Passes the release criteria.
pH (at 25°C) : 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50 – 100	Luxuriant	30-35°C	Not more than 3 days
<i>Escherichia coli</i>	8739	50 – 100	Luxuriant	30-35°C	Not more than 3 days
<i>Pseudomonas aeruginosa</i>	27853	50 – 100	Luxuriant	30-35°C	Not more than 3 days
<i>Klebsiella aerogenes</i>	13048	50 – 100	Luxuriant	30-35°C	Not more than 3 days
<i>Proteus mirabilis</i>	25933	50 - 100	Luxuriant	30-35°C	Not more than 3 days
<i>Salmonella enteritidis</i>	13076	50 – 100	Luxuriant	30-35°C	Not more than 3 days
<i>Staphylococcus aureus</i>	25923	≥1000	Inhibited	30-35°C	Not more than 3 days
<i>Staphylococcus aureus</i>	6538	≥1000	Inhibited	30-35°C	Not more than 3 days

PACKAGING:

In pack size of 100 ml X 25 and 500 ml X 6 bottles.

STORAGE

On receipt, store bottles in the dark at 10–25 °C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Bottled 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

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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 GMP Good Manufacturing Practices Certified	 Best Before	 Quantity	 Cataloge Number	 Manufacturer
 Temprature Unit	 Lot / Batch Number	 Consults Instructions for Use	 QR Code	

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

***For Lab Use Only**
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