

TM 989 – EE BROTH, MODIFIED

INTENDED USE

For selective enrichment of *Enterobacteriaceae* in the bacteriological examination of foods.

PRODUCT SUMMARY AND EXPLANATION

EE Broth, Modified is recommended as an enrichment medium for *Enterobacteriaceae* in bacteriological examination of foods and animal feed stuffs.

COMPOSITION

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

PRINCIPLE

The medium consists of Pancreatic digest of gelatin, glucose that allow the growth of most of the members of *Enterobacteriaceae*. Incorporation of brilliant green and Ox Bile, dried makes the medium, inhibitory to non-*Enterobacteriaceae*. Lactose non fermenters, anaerogenic lactose fermenters or late lactose fermenters may be missed by the standard 'Coli-aerogenes' test. To overcome this problem, lactose is replaced by glucose in the media.

INSTRUCTION FOR USE

- Dissolve 45.0 grams in 1000 ml purified / distilled water.
- Distribute in 120 ml amounts in 250 ml flasks or 9 ml in tubes. Stopper with cotton plugs or loose fitting caps.
- Heat in free flowing steam or boiling water for 30 minutes. Avoid overheating of the medium.
- Cool to 45-50°C rapidly in cold running water. DO NOT AUTOCLAVE.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Light yellow to greenish yellow coloured homogeneous free flowing powder.
- Appearance of prepared medium** : Emerald green coloured clear solution without any precipitate.
- pH (at 25°C)** : 7.2 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Acid	Incubation Temperature	Incubation Period



<i>Klebsiella aerogenes</i>	13048	50-100	Luxuriant	Positive reaction, yellow colour	35-37°C	18-24 Hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	Positive reaction, yellow colour	35-37°C	18-24 Hours
<i>Proteus mirabilis</i>	25933	50-100	Luxuriant	Positive reaction, yellow colour	35-37°C	18-24 Hours
<i>Salmonella</i> Enteritidis	13076	50-100	Luxuriant	Variable reaction	35-37°C	18-24 Hours
<i>Shigella boydii</i>	12030	50-100	Luxuriant	Negative reaction, no colour change	35-37°C	18-24 Hours
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	25923	$\geq 10^3$	Inhibited	-	35-37°C	18-24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.










DISPOSAL

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

REFERENCES

1. Mossel D.A.A. and Ratto M.A., 1970, Appl. Microbiol., 20:273.
2. Mossel D.A.A. and Shennan J.L. and Clare V., 1973, J. Sci. Fd. Agric., 24 : 499.
3. Mossel D.A.A., Ratto M.A., 1973, J. Fd. Technol., 8 : 97.



 GMP Good Manufacturing Practices Certified	 Best Before	 Quantity	 Catalogue Number	 Manufacturer
 Temperature 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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