

## CM 20632 – 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 |
|---------------|------|-------------------|--------|------|------------------------|-------------------|
|               |      |                   |        |      |                        |                   |



|                                     |       |             |           |                                     |         |             |
|-------------------------------------|-------|-------------|-----------|-------------------------------------|---------|-------------|
| Klebsiella aerogenes                | 13048 | 50-100      | Luxuriant | Positive reaction, yellow colour    | 35-37°C | 18-24 Hours |
| Escherichia coli                    | 25922 | 50-100      | Luxuriant | Positive reaction, yellow colour    | 35-37°C | 18-24 Hours |
| Proteus mirabilis                   | 25933 | 50-100      | Luxuriant | Positive reaction, yellow colour    | 35-37°C | 18-24 Hours |
| Salmonella Enteritidis              | 13076 | 50-100      | Luxuriant | Variable reaction                   | 35-37°C | 18-24 Hours |
| Shigella boydii                     | 12030 | 50-100      | Luxuriant | Negative reaction, no colour change | 35-37°C | 18-24 Hours |
| Staphylococcus aureus subsp. aureus | 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.



|   |   |  |   |   |
|---|---|--|---|---|
| <br>GMP<br>Good Manufacturing<br>Practices Certified | <br>Best Before        | <br>Quantity                          | <br>Catalogue Number | <br>Manufacturer |
| <br>Temperature Unit                                 | <br>Lot / Batch Number | <br>Consults Instructions<br>for Use | <br>QR<br>Code       |   |

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.  
\*For LabUse Only

