

## TM 2062 – EGG MEAT MEDIUM

### INTENDED USE

For the determination of proteolytic activity and maintaining stock cultures of anaerobic.

### PRODUCT SUMMARY AND EXPLANATION

Organisms that are able to grow in the absence of oxygen are termed as anaerobic organisms. Depending upon their absolute requirement for an on-oxygen environment, they are either classified as facultative or obligate. Egg Meat Medium was used by Rettger for his studies on *Escherichia coli* and *Enterobacter aerogenes*. This medium contains particles of beef muscles, calcium carbonate and egg white. This medium was later used in studies of intestinal putrefaction. Egg Meat Medium was subsequently used in the study of spore-forming anaerobes including *Clostridium perfringens*. This medium is also recommended by AOAC for maintenance of *Clostridium* used in testing of sporicidal activity of liquid and gaseous chemicals.

### COMPOSITION

Ingredients	Gms / Ltr
Beef muscles	454.000
Calcium carbonate	5.000
Egg white from (eggs)	6.000

### PRINCIPLE

The medium consists of Beef muscle which serves as sources of carbon, nitrogen, salts, vitamins and other nutrients required to support bacterial growth. Egg white serves a source of protein for the determination of proteolytic activity. Calcium carbonate helps to neutralize the acids and also helps in creating anaerobic atmosphere by displacing the oxygen in the medium.

### INSTRUCTION FOR USE

- Dissolve 15 grams in 100 ml purified / distilled water.
- Allow to stand with frequent agitation for thorough wetting. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Note: Due to presence of Calcium carbonate, the prepared medium forms opalescent solution with white precipitate.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance of Powder</b>	: Light brown to brown homogeneous free flowing powder.
<b>Appearance of prepared medium</b>	: Light amber coloured, clear to slightly opalescent solution with white precipitate over brown coloured meat granules.
<b>pH (at 25°C)</b>	: 7.2 ± 0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

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



<i>Clostridium perfringens</i>	25922	50-100	Luxuriant	35-37°C	24-48 Hours
<i>Clostridium sporogenes</i>	13048	50-100	Luxuriant	35-37°C	24-48 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. Rettger L. F., 1906, J. Biol. Chem., 2:71.
2. Rettger L. F., 1903. Am. J. Physiol., 8:284.
3. Reddish G. F. and Rettger L. F., 1924, J. Bacteriol., 9:13.
4. Reddish G. F. and Rettger L. F., 1923, J. Bacteriol., 8:375.
5. Horwitz, (Ed.), 2000, Official Methods of Analysis of AOAC International, 17th Ed., Vol. I, 6. 3.05A (a) (4), AOAC International, Gaithersburg, Md.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Borkstrasse 10, 49163 Moenster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

**\*For Lab Use Only**  
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