CM 20633 – EGG MEAT MEDIUM

INTENDED USE

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

PRODUCT SUMMARY AND EXPLANATION

Organismsthatare 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 beefmuscles, calcium carbonate and egg white. This medium was later used in studies of intestinal putrefaction. EggMeat Medium was subsequently used in the study of spore-forming anaerobes including Clostridium perfringens. Thismedium is also recommended by AOAC for maintenance of Clostridium used in testing of sporicidal activity of liquidand gaseous chemicals.

COMPOSITION

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

PRINCIPLE

Themediumconsists 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 toneutralize the acids and also helps in creating anaerobic atmosphere by displacing the oxygen in themedium .

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

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

INTERPRETATION

Culturalcharacteristics observed after incubation.

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

Clostridium perfringens	25922	50-100	Luxuriant	35-37°C	24-48 Hours
Clostridium sporogenes	13048	50-100	Luxuriant	35-37°C	24-48 Hours

PACKAGING:

Inpacksizeof500 gm bottles.

STORAGE

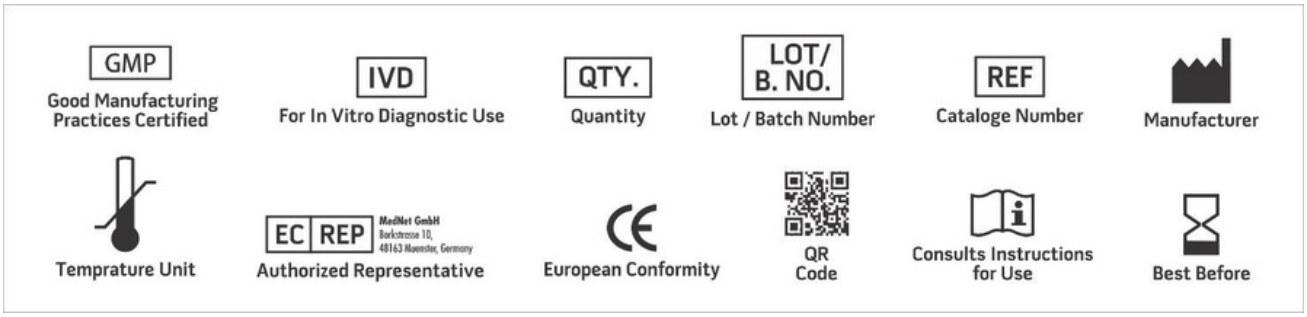
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided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

Afteruse,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.



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

*For LabUse Only