CM 20660 – ENRICHMENT MEDIUM

INTENDED USE

A highly nutritive medium which can be used for enrichment purpose.

PRODUCT SUMMARY AND EXPLANATION

Enriched mediacontain thenutrientsrequired to support the growth of a wide variety of organisms, including some of the more fastidious ones. They are commonly used to harvest as many different types of microbes as are present in the specimen. Enrichment medium is general purpose enrichment agar which can nourish and support the growth of gram-positive as wellas gram-negative bacteria. It can also be supplemented with blood for enriched growth or study the haemolysis.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	40.000
Yeast extract	6.000
Dipotassium hydrogen phosphate	3.000
Agar	15.000

PRINCIPLE

Themediumconsists of peptone and yeast extract which serves as source of nitrogen, carbon, amino acids, vitamins and growth factors for growth of bacteria. Dipotassium phosphate buffers the medium well. Agar is solidifying agent.

INSTRUCTION FOR USE

Dissolve 64.0gramsin 1000 ml purified / distilled water.
Heat to boiling to dissolve the medium completely.
Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50°C.
Mix well before pouring into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow coloured homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured clear gel forms in Petri plates.
pH (at 25°C)	: 7.0 ± 0.2

INTERPRETATION

Culturalcharacteristics observed after incubation.

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

Escherichia coli	25922	50-100	Luxuriant	>=70%	35-37°C	After 24 Hours
Salmonella Typhi	6539	50-100	Luxuriant	>=70%	35-37°C	After 24 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant	>=70%	35-37°C	After 24 Hours
Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	35-37°C	After 24 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.

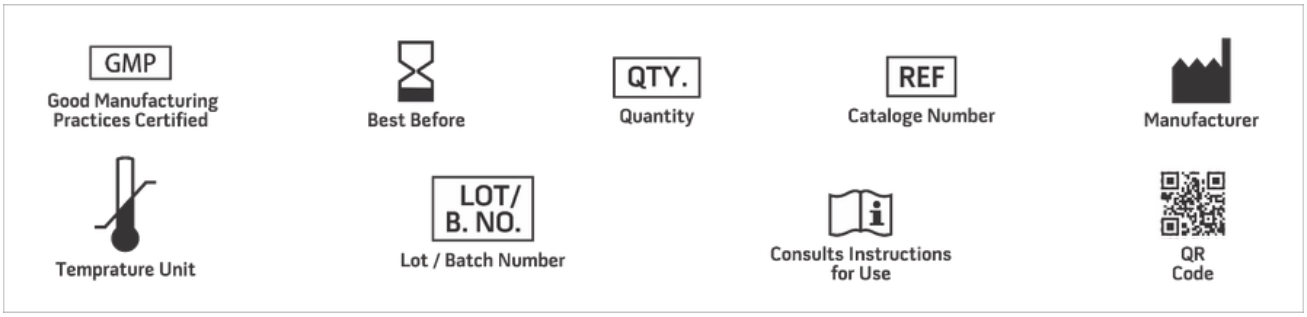
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.



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

*For LabUse Only