CM 20649 – EMERSON AGAR

INTENDED USE
For the cultivation of Actinomycetaceae, Streptomycetaceae and molds.

PRODUCT SUMMARY AND EXPLANATION
Emerson Agarwasoriginally formulated byEmerson et al and is used for the cultivation of moulds and bacterial species resembling moulds. This medium was further modified by Gottlieb et al and is used for screening potent antibiotic producing organisms. In their study, they stored Streptomyces in soil for long time and transferred them as needed, to slants of EmersonAgar. The slant cultures were incubated for 3-7 days. The spores were gently scraped from the cultures surface to formaspore inoculum.

COMPOSITION

Ingredients	Gms / Ltr
Beef extract	4.000
Yeast extract	1.000
Peptone	4.000
Dextrose (Glucose)	10.000
Sodium chloride	2.500
Agar	20.000

PRINCIPLE
Themedium consists of Yeast extract which provides a source of trace elements, vitamins and amino acids. For the selective isolation of Streptomyces species, cycloheximide is incorporated in the medium, which limits the growth of moulds. This medium is also used for routine cultivation and maintenance of pure cultures.

INSTRUCTION FOR USE

Dissolve 41.5gramsin 1000 ml purified / distilled water.
Heat to boiling to dissolve the medium completely.
Add 0.05 grams / litre cycloheximide, if desired. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

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

INTERPRETATION
Cultural characteristics observed after incubation.

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

Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70%	30°C	48-72 Hours
Saccharomyces cerevisiae	9763	10-100	Luxuriant	>=70%	30°C	48-72 Hours
Streptomyces albus subsp albus	3004	50-100	Luxuriant	>=70%	30°C	48-72 Hours
Streptomyces lavendulae	8664	50-100	Luxuriant	>=70%	30°C	48-72 Hours
Streptomyces achromogenes	12767	50-100	Luxuriant	>=70%	30°C	48-72 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. Emerson R. L., Whiffen A. J., Bohonos M. and DeBoer C., 1946, J. Bacteriol., 52:357.
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3. Haynes W. C., Wickerham L. J. and Hesseltine C. W., 1955, Appl. Microbiol., 3:361.
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. 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.
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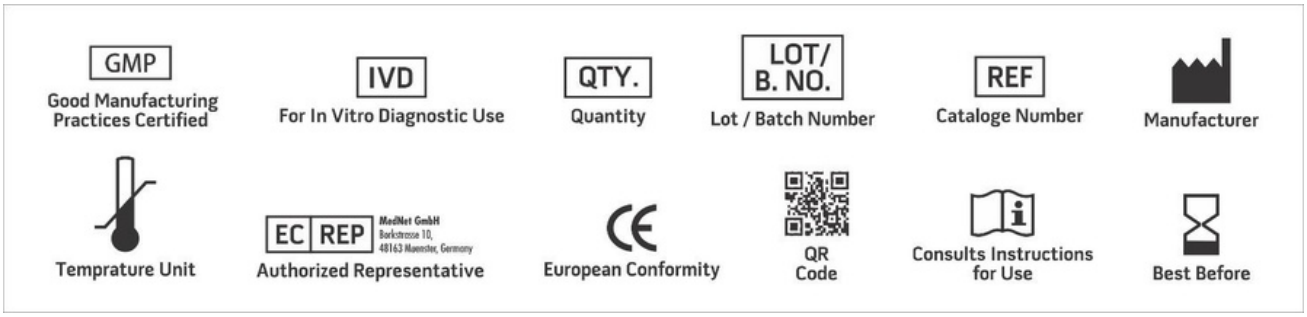

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

*For LabUse Only