CM 20,062 – AMMONIUM PHOSPHATE AGAR

INTENDED USE

Fordetection oftheability ofmicroorganisms toutilize ammonium phosphate as nitrogen source.

PRODUCT SUMMARY AND EXPLANATION

Staphylococci aregenerally found ontheskin and mucous membranes of humans and other animals. Micrococci are found in the environment and as transient members of the microflora on the skin of humans and other mammals. Ammonium Phosphate Agar was formulated by Hucher for detecting microorganisms that can utilize ammonium phosphate as a source of nitrogen. This medium is particularly useful during the differentiation of Micrococci from Staphylococci.

COMPOSITION

Ingredients	Gms / Ltr
Ammonium phosphate	1.000
Dextrose (Glucose)	10.000
Potassium chloride	0.200
Magnesium sulphate	0.200
Bromo cresol purple	0.050
Agar	15.000

PRINCIPLE

Dextrose upon fermentation produces acid, which is indicated by the colour change of the bromocresol purple indicator to yellow. Free living, non-pathogenic, saprophytic or facultatively parasitic Micrococci utilize dextrose and ammonium phosphate present in the medium. Potassium chloride and magnesium sulphate provide necessary salts for the growth of microorganisms.

INSTRUCTION FORUSE

Dissolve 26.45 grams in 1000 ml purified / distilled water.
Mix thoroughly and heat to boiling to dissolve the medium completely.
Dispense in tubes and sterilize by autoclaving at 118-121°C (12-15 psi pressure) for 10 minutes. Cool to 45-50° C.
- Allow the tubes to cool in slanted position.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to light purple homogeneous free flowing powder.
Appearance of prepared medium	: Purple coloured clear to slightly opalescent gel forms in tubes as slants.
pH (at 25°C)	: 7.0±0.2

INTERPRETATION

Culturalcharacteristics observed after incubation.

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

Micrococcus luteus	10240	50-100	Luxuriant	Yellow	35-37°C	18-24 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant	Purple	35-37°C	18-24 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.

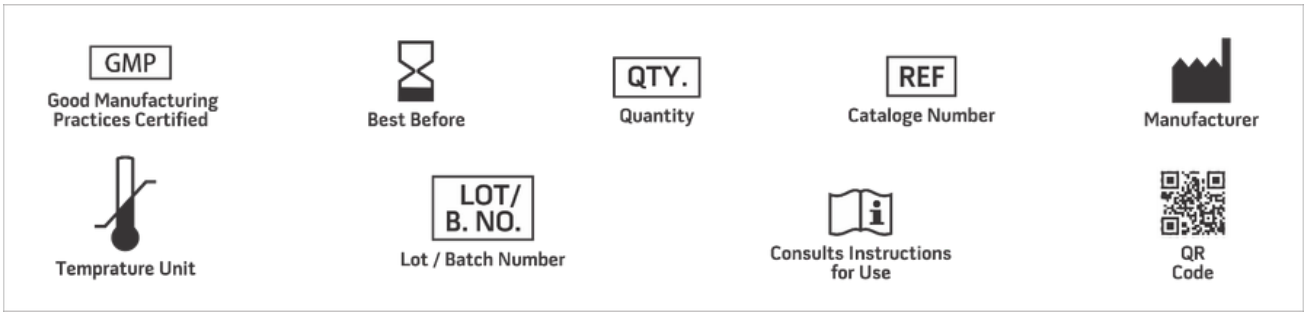
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

1. Hucher,1924,New York State Exp. Sta. Tech. Bull., 100:36.
2. Koneman E. W., Allen S. D., Janda M. W., Schreckenberger C. P., WinnC. W., (Eds), Colour Atlas and Textbook of Diagnostic Microbiology,4th E d, J. B. Lippincott Company.



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

*For LabUse Only