CM 20565 – DEXTROSE PEPTONE AGAR (GLUCOSE PEPTONE AGAR)

INTENDED USE
For general cultivation of microorganisms.

PRODUCT SUMMARY AND EXPLANATION
Dextrose PeptoneAgarisformulated assuggested by Williams for the cultivation of microorganisms, which are fastidious, or present in smallnumbers, and also for the enumeration of the thermophilic bacteria responsible for flat sour spoilage of canned foods.This medium is recommended by AOAC for the routine cultivation purpose.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	20.000
Dextrose (Glucose)	10.000
Sodium chloride	5.000
Agar	15.000

PRINCIPLE
The mediumconsists of Peptone supplies amino acids, peptides etc. for the growth of the organisms. Dextrose is the readily available energy source for the most of the organisms. The agar medium is also used as an excellent basal agar for the Glucose Blood Agar preparation. In the special Petri plates, it can support good growth of the anaerobic microorganisms.

INSTRUCTION FOR USE

Dissolve 50 grams in1000 ml purified/distilled water.
Heat to boiling to dissolve the medium completely.
Sterilize by autoclaving at 15psi pressure (121°C) for 15 minutes. Cool to 45-50° C.
- 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 yellow coloured, clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.2 ± 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	18-24 Hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	>=70%	35-37 °C	18-24 Hours
Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	35-37 °C	18-24 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant	>=70%	35-37 °C	18-24 Hours

PACKAGING:

Inpacksizeof500 gm bottles.

STORAGE

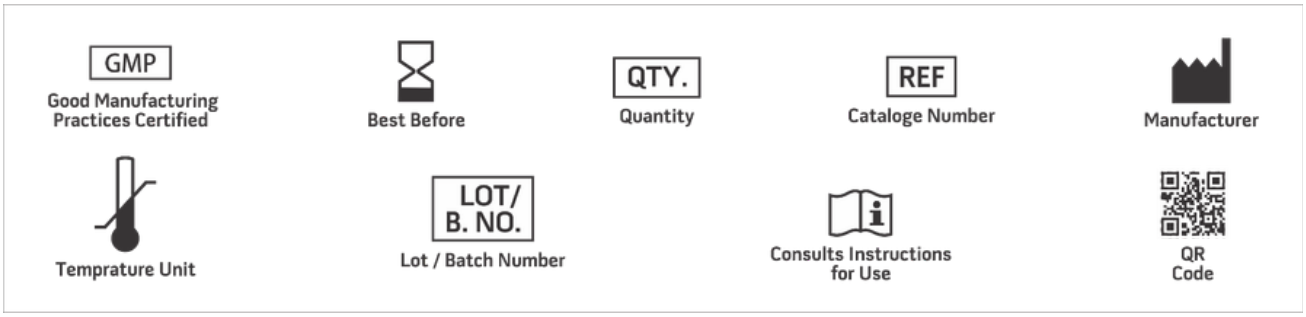
Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided 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. Association of Official Analytical Chemists, 1978, Bacteriological Analytical Manual, 5th ed., AOAC, 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.
4. Williams O.B., 1936, Food Res., 1(3):217.



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

*For LabUse Only