TM 864 - STANDARD INFUSION AGAR (MEAT INFUSION AGAR)

INTENDED USE
For mass cultivation of microorganisms in vaccine or toxin production.

PRODUCT SUMMARY AND EXPLANATION
The principles of cultivation of bacteria were laid down in the late 1870's by Robert Koch. Since that time bacteriologists could study systematically the diseases caused by bacteria, isolate the causative agents in pure culture and make themselves familiar with their nature. With the aid of the culture technique they could produce therapeutic sera and prophylactic vaccines. Standard Infusion Agar supports luxuriant growth of a variety of bacteria. This medium is thus recommended for large-scale cultivation of bacteria for the purpose of vaccine and toxin production. Standard Infusion Agar has composition similar to Beef Peptone B Agar. Standard Infusion Broth, having a composition similar to Standard Infusion Agar is recommended as highly nutritious media for the cultivation of wide variety of microorganisms.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Beef infusion from	500.000
Sodium chloride	5.000
Agar	25.000

PRINCIPLE
Peptone and Beef Infusion B from provide nitrogen and carbon source, long chain amino acids Sulphur, vitamins and other growth nutrients for luxuriant growth of organisms. Sodium chloride maintains the osmotic equilibrium.

INSTRUCTION FOR USE
- Dissolve 50 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Coo 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 : Yellow coloured clear to slightly opalescent gel forms in Petri plates Reaction.
pH (at 25°C) : 7.5±0.2

INTERPRETATION
Cultural characteristics observed after an incubation.

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

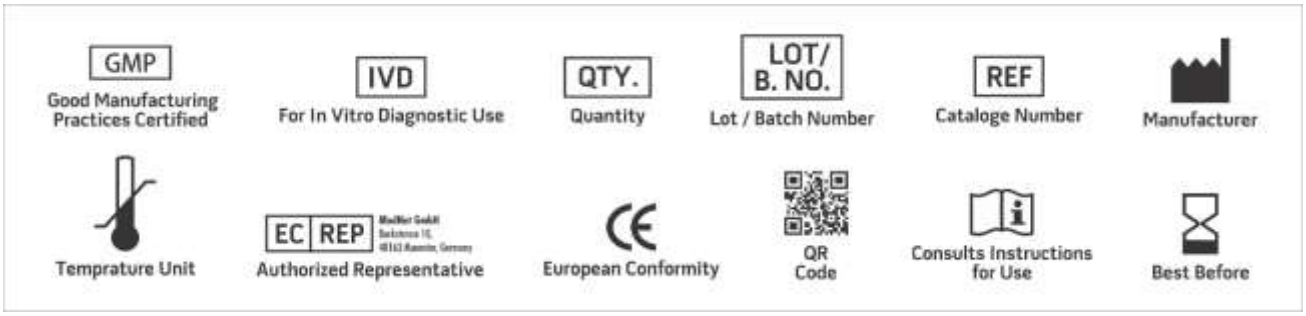
Escherichia coli	25922	50-100	Luxuriant	>=70%	35-37°C	18-48 Hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	>=70%	35-37°C	18-48 Hours
Salmonella Typhi	6539	50-100	Luxuriant	>=70%	35-37°C	18-48 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	>=70%	35-37°C	18-48 Hours

PACKAGING:
In pack size of 500 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
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES
1. Atlas R. M., 1993, Handbook of Microbiological Media, CRC Press. Inc.
2. Cruickshank R., Duguid J. P., Marmion B. P., Swain R. H. A., (Eds.), 1975, Medical Microbiology, The Practice of Medical Microbiology, 12th Edition, Vol. II, Churchill Livingstone.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook. Second Edition.
4. 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.
5. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978, 14th Ed., Washington D.C.



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

***For Lab Use Only**
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