

# TM 889 – TRYPTONE AGAR

#### **INTENDED USE**

General purpose medium for growth of non-fastidious microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Tryptone Agar is a general purpose nutritious medium for growth of non-fastidious microorganisms. Tryptone Agar was developed by Vera for the accurate differentiation and identification of aerobes and anaerobes by means of motility and fermentation reactions. It is recommended for Clostridia, *Bacillus* species, Micrococci, enteric bacilli and other non-fastidious organisms. This is also an excellent medium for the maintenance for both aerobic and anaerobic cultures. Viability in this medium is greater than in any other broth medium or slant culture.

### **COMPOSITION**

Ingredients	Gms / Ltr	
Casein enzymic hydrolysate	10.000	
Sodium chloride	8.000	
Agar	15.000	

#### **PRINCIPLE**

Casein enzymic hydrolysate provides essential growth nutrients to support the growth of organisms. Sodium chloride buffers the medium. Sodium chloride helps in maintaining the osmotic balance.

## **INSTRUCTION FOR USE**

- Dissolve 33.0 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.
- 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.

### **INTERPRETATION**

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Enterobacter aerogenes	13048	50-100	Luxuriant	>=70%	35-37°C	24-48 Hours
Escherichia coli	25922	50-100	Luxuriant	>=70%	35-37°C	24-48 Hours











Pseudomonas aeruginosa	27853	50-100	Luxuriant	>=70%	35-37°C	24-48 Hours
Salmonella Enteritidis	13076	50-100	Luxuriant	>=70%	35-37°C	24-48 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	>=70%	35-37°C	24-48 Hours

#### **PACKAGING:**

In pack size of 100 gm and 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.

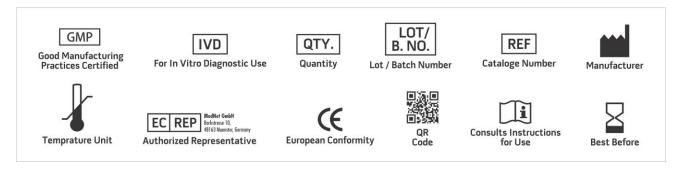
**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### **DISPOSAL**

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

### **REFERENCES**

- 1. Vera, 1944, J. Bacteriol., 47:455.
- 2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.



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

\*For Lab Use Only
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