TM 890 – TRYPTONE AGAR BASE

INTENDED USE
For determination of motility and carbohydrate fermentation reactions of aerobes and anaerobes.

PRODUCT SUMMARY AND EXPLANATION
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.
Tryptone Agar Base 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. Fermentation reactions of can be determined by the addition of desired carbohydrates. Acid production, during fermentation, is detected by the phenol red indicator by changing the colour of the medium from red to yellow.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	20.000
Phenol red	0.020
Agar	3.500

PRINCIPLE
Tryptone provides essential nutrients necessary to support the growth of non-fastidious microorganisms. Phenol red is the pH indicator.

INSTRUCTION FOR USE
- Dissolve 23.52 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- If desired add required amount of carbohydrate (0.5%).
- Dispense in tubes and sterilize by autoclaving at 12 psi 118°C for 15 minutes.
- Cool the tubed the tubed medium in an upright position.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Light yellow to light pink homogeneous free flowing powder.
Appearance of prepared medium : Red coloured clear to slightly opalescent gel forms in tubes as butts.
pH (at 25°C) : 7.4±0.2

INTERPRETATION
Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Acid	Motility	Incubation Temperature	Incubation Period
Clostridium perfringens	12924	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Negative, growth along the stabline,	35-37°C	24-48 Hours

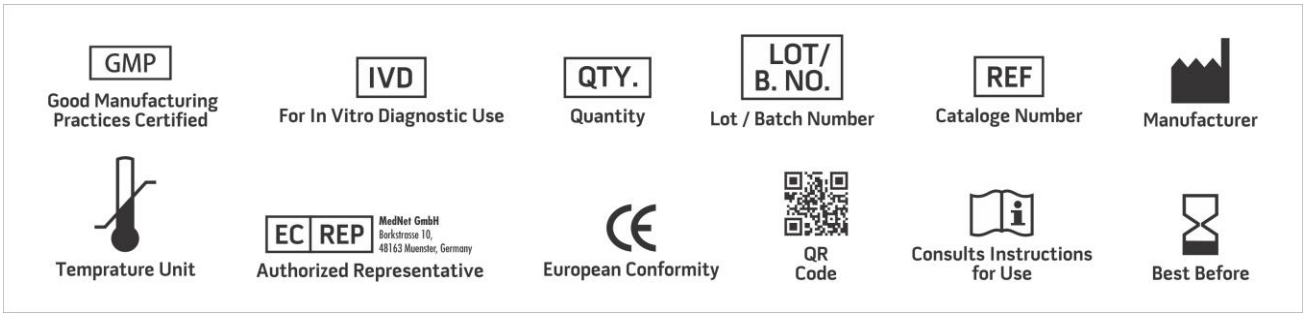
						surrounding medium remains clear		
Clostridium sporogenes	11437	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Positive, growth away from stabline causing turbidity	35-37°C	24-48 Hours
Escherichia coli	25922	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Positive, growth away from stabline causing turbidity	35-37°C	24-48 Hours
Klebsiella aerogenes	13048	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Positive, growth away from stabline causing turbidity	35-37°C	24-48 Hours
Salmonella Typhi	6539	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Positive, growth away from stabline causing turbidity	35-37°C	24-48 Hours
Salmonella Enteritidis	13076	50-100	Luxuriant	>=70%	Positive reaction, yellow colour	Positive, growth away from stabline causing turbidity	35-37°C	24-48 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Good	40-50%	Positive reaction, yellow colour	Negative, growth along the stabline, surrounding medium remains clear	35-37°C	24-48 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. MacFaddin J., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
2. Vera, 1944, J. Bact., 47:455.



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

***For Lab Use Only**

Revision: 08 Nov., 2019