



## Tryptone T, Type-III

RM029

### Principle And Interpretation

Tryptone T Type III is manufactured under controlled conditions by enzymic hydrolysis. It is used for production of Tetanus toxin. It is also used as media ingredient for the cultivation of bacteria, fungi, moulds and yeasts.

### Quality Control

#### Appearance

Off white to light yellow homogenous free flowing powder, having characteristic but not putrescent odour.

#### Solubility

Freely soluble in distilled/ purified water, insoluble in alcohol.

#### Clarity

1% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121°C ) for 15 minutes.

#### Reaction

Reaction of 2% w/v aqueous solution at 25°C.

#### pH

5.50 - 7.50

#### Microbial Load:

##### Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days.

Bacterial Count :  $\leq 2000$  CFU/gram

##### Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days.

Yeast & mould Count :  $\leq 100$  CFU/gram

#### Test for Pathogens

1. *Escherichia coli*- Negative in 10 gms of sample 2. *Salmonella* species- Negative in 10 gms of sample 3. *Pseudomonas aeruginosa*- Negative in 10 gms of sample 4. *Staphylococcus aureus*- Negative in 10 gms of sample 5. *Candida albicans*- Negative in 10 gms of sample 6. *Clostridia*- Negative in 10 gms of sample

#### Indole test

Tryptophan content: Passes

#### Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Tryptone Broth (M463) using Tryptone T Type III as an ingredient.

#### Cultural response

Organism	Growth	Indole reaction
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction, red ring at the interface of the medium
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Negative reaction, no colour development /cloudy ring
<i>Klebsiella pneumoniae</i> ATCC 13883	Luxuriant	Negative reaction, no colour development /cloudy ring

**Chemical Analysis**

Total Nitrogen	>= 12.0%
AminoNitrogen	>= 3.50%
Sodium chloride	<= 4.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 15%
Iron (Fe)	<=0.003%

**Storage and Shelf Life**

Store between 10- 30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources. Seal the container tightly after use.

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