Technical Information

Tryptone T, Type III

Product Code: BA2029

Principle & Interpretation

Trytone 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.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user 's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on themedium prepared by the product.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

Appearance

Off white to light yellow homogenous free flowing powder characteristic but not putrescent

Solubility

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

Clarity

1% w/v aqueous solution is clear to slight opalescent after autoclaving at 15 lbs pressure (121ºC) for15 minutes.

pH

pH of 2% w/v aqueous solution at 25ºC 5.50-7.50

Microbial Load :

Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35ºC for not less than 3 days. Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25ºC for not less than 5 days.

Test for pathogens :

1. *Escherichia Coli*- Absent/gram of sample
2. *Salmonella species*- Absent/10 gram of sample
3. *Pseudomonas aeruginosa* - Absent/gram of sample

4. *Staphylococcus aureus*- Absent/gram of sample
5. *Candida albicans* - Absent/gram of sample
6. *Clostridia* - Absent/gram 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 TryptoneBroth (DM1463) using Tryptone T Type III as an ingredient.

Cultural response

Organism	Growth	Indole reaction
Escherichia coli ATCC 25922 (WDCM 00013	Luxuriant	Positive reaction, red ring at the interface In the medium
**Klebsiella aerogenes* ATCC 13048(WDCM 00175	Luxuriant	Negative reaction, no colour development / cloudy ring
Klebsiella pneumoniae subsp. *Pneumoniae* ATCC 13883 (WDCM 00097)	Luxuriant	Negative reaction, no colour development / cloudy ring

(*) formerly known as *Enterococcus aerogenes*

Chemical Analysis
Total Nitrogen : ≥12.00 %
Amino Nitrogen : ≥3.50 %
Sodium chloride : ≤4.00 %
Loss on drying : ≤5.00 %
Residue on ignition : ≤15.00 %
Iron (Fe) : ≤0.00300 %

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 of ignition. Seal the container tightly after use

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.