



Tryptose

RM030

Intended use

Tryptose is specially prepared enzymic hydrolysate of protein, to meet the nutritional requirements of fastidious microorganisms. It is used in Tryptose media, where blood cells are maintained in excellent state and so haemolytic reactions can be easily demonstrated. It is also used in vaccine preparation media for rapid and luxuriant growth as desired for large scale production of vaccines and toxins, for supplementing tissue culture media.

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 the medium prepared by the product.

Performance and Evaluation

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

Quality Control

Appearance

Light yellow to 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

6.20- 7.20

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 : <= 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 : <= 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 Lauryl Tryptose Broth (M080) using Tryptose as an ingredient.

Cultural response

Organism	Growth	Gas Production
<i>Gaej gtlej k'eqrk'VEE'47; 44</i>	Luxuriant	Rqukk reaction
* <i>Klebsiella aerogenes</i> ATCC 13048	Luxuriant	Positive reaction
<i>Enterococcus faecalis</i> ATCC 29212	Luxuriant	-
<i>Salmonella Typhimurium</i> ATCC 14028		Negative reaction
<i>Staphylococcus aureus</i> ATCC 25923		-

Chemical Analysis

Total Nitrogen	>= 12.50%
Amino Nitrogen	>= 4.0%
Sodium chloride	<= 5.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 12.0%

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.

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Disclaimer :

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