



Tryptose

RM030

It is used in media, for eg, Tryptose media - for cultivation of fastidious microorganisms and for preparing Blood Agars. Since the blood cells are maintained in an excellent state in Tryptose media, haemolytic reactions can be easily demonstrated. Vaccine preparation media - for rapid and luxuriant growth as desired for large scale manufacturing of vaccines and toxins. Tissue culture media - for supplementing tissue culture media for propagation of HeLa Cells.

Principle And Interpretation

Tryptose is a mixture of enzymically digested protein. It is designed to promote luxuriant growth of highly fastidious microorganisms. Even though enzymically digested, it can be successfully employed in place of meat infusion to meet the nutritional requirements of fastidious microorganisms.

It is a light yellow coloured powder that forms crystal clear aqueous solution.

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 : \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. E.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. C.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
Cultural response		
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Positive reaction
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Positive reaction
<i>Enterococcus faecalis</i> ATCC 29212	Inhibited	

<i>Salmonella Typhimurium</i> ATCC 14028	Luxuriant	Negative reaction
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited	

Chemical Analysis

Total Nitrogen	$\geq 12.50\%$
AminoNitrogen	$\geq 4.0\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12.0\%$

Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.

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