



Tryptose, Certified

CR030

Principle And Interpretation

Tryptose, Certified is a mixture of enzymically digested protein. It is designed to promote luxuriant growth of highly fastidious microorganisms. It can be successfully employed in place of meat infusion to meet the nutritional requirements of fastidious microorganisms. It can also be used in vaccine production media and tissue culture media.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder, having characteristic odour but not putrescent.

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, Certified as an ingredient.

Cultural Response

Organism	Growth	Gas Production
<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	>= 12.0%
Amino Nitrogen	>= 3.0%
Sodium chloride	<= 6.0%
Loss on drying	<= 6.0%
Residue on ignition	<= 17%

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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