



Tryptone (MB grade) (Casitose,MB grade)

RM7707

Principle And Interpretation

Tryptone, (MB grade) Casitose MB grade) is enzymic hydrolysis of milk protein. Recommended for use in media where growth of recombinant strains is desirable and for related molecular biology applications. It is very rich source of amino nitrogen. It is equivalent to Casein Enzymic Hrolysate(MB grade).

Quality Control

Appearance

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

Solubility

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

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

6.50 - 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 : ≤ 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 18-48 hours by preparing Luria Agar(M557)using Tryptone (MB grade) (Casitose,MB grade) as an ingredient.

Cultural Response

Organism	Growth
Cultural response <i>Escherichia coli</i> ATCC 23724	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 12.0\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 12.0\%$

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. Seal the container tightly after use.



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