



Tryptone Type II, Certified (Casitose Type II, Certified)

CR028

Principle And Interpretation

Tryptone, Type II, Certified (Casitose, Type-II, Certified) is a refined product enzymatically hydrolysed from milk protein under controlled conditions, providing high quality soluble source of amino acids, polypeptides and peptides. It is very rich source of Amino Nitrogen. And is used in media for commercial production of antibiotics, toxins and enzymes. It is equivalent to Casein Enzyme Hydrolysate, Type II certified.

Quality Control

Appearance

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

Solubility

Freely soluble in distilled 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

6.30- 7.30

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 incubation at 35 - 37°C for 18-48 hours by preparing Soyabean Casein Digest Medium (M011), using Tryptone Type II, Certified (Casitose Type II, Certified) as an ingredient.

Cultural Response

Organism

Growth

Cultural response

Bacillus subtilis ATCC 6633

characteristic, luxuriant growth

Bacillus vulgatus ATCC 8482

characteristic, luxuriant growth

Candida albicans ATCC 10231

characteristic, luxuriant growth

Staphylococcus aureus
ATCC 25923

characteristic, luxuriant growth

Streptomyces albus ATCC
3004

characteristic, luxuriant growth

Streptococcus pyogenes
ATCC 19615

luxuriant w/beta haemolysis (with addition of sterile 5% sheep blood in above medium after 48 hours of incubation at 35-37°C).

Neisseria meningitidis ATCC
13090

luxuriant w/beta haemolysis (with addition of sterile 10% sheep blood to above medium heated to 80 to 90°C until blood has turned to chocolate brown and incubated in 10% CO₂ atmosphere after 48 hours of incubation at 35-37°C).

Chemical Analysis

Total Nitrogen	>= 12.0%
Amino Nitrogen	>= 4.50%
Sodium Chloride	<= 5.00%
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. Seal the container tightly after use.



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