HiSoya Peptone

RM10662

Principle And Interpretation

Soya Peptone is the soluble end product of the enzymic digestion of soyabean meal. Because of the stimulatory properties associated with soya peptone, it is ideally recommended as a growth stimulant for the cultivation of fastidious microorganisms.

Quality Control

Appearance

Light yellow to yellow, may have a slight green tinge homogenous free flowing powder characteristic odour of protein, derived from vegetable source.

Solubility

Freely soluble in distilled/ purified water, insoluble in chloroform.

Clarity

1% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121ºC) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25ºC.

pH

6.00- 7.00

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 HiSoya Peptone 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	characteristic,luxuriant growth
Neisseria meningitidis ATCC 13090	characteristic,luxuriant growth

Chemical Analysis

TotalNitrogen	>= 11.0%
Amino Nitrogen	>= 5.0%
Sodium Chloride	<= 5.0%
Loss on drying	<= 6.0%
Residue on ignition	<= 15.0%

Storage and Shelf Life

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

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