Peptone Type I, Bacteriological

RM667

It can be used as culture media ingredient, employed in fermentations, production of vaccines, antibiotics, etc.

Principle And Interpretation

Peptone Type I, Bacteriological is prepared by enzymatic digestion of selected fresh meat under controlled conditions. It is used in medias for cultivation of microorganisms.

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 remains clear without haziness after autoclaving at 15 lbs pressure (121ºC) for 15 minutes.

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

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. E.coli-Negative in 10 gms of sample2. Salmonella species-Negative in 10 gms of sample3. Pseudomonas aeruginosa-Negative in 10 gms of sample4. Staphylococcus aureus- Negative in 10 gms of sample5. C.albicans- Negative in 10 gms of sample6. Clostridia- Negative in 10 gms of sample

Indole Test
Tryptophan content: Passes

Cultural response
Cultural response observed after an incubation at 35-37ºC for 18-24 hours by preparing Nutrient Agar (M001) using Peptone Type I as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
Escherichia coli ATCC 25922	Luxuriant
Pseudomonas aeruginosa ATCC 27853	Luxuriant
Staphylococcus aureus ATCC 25923	Luxuriant
Salmonella Typhi ATCC 6539	Luxuriant
Streptococcus pyogenes ATCC 19615	Luxuriant

Chemical Analysis

Total Nitrogen	>= 11.30%
Amino Nitrogen	>= 3.0%
Sodium chloride	<= 6.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 15.0%

Storage and Shelf Life

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

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