



Peptone Type I, Bacteriological

RM667

Principle And Interpretation

Peptone Type I, Bacteriological is prepared under controlled conditions, used as culture media ingredient for cultivation of various bacteria. Employed for different fermentation processes, production of vaccines, antibiotics, etc.

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 to slight hazy 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 18-24 hours by preparing Nutrient Agar (M001) using Peptone Type I as an ingredient.

Cultural Response

Organism	Growth
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Salmonella</i> Typhi ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> 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 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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