



Peptone Type I, Bacteriological, Granulated

RMG667

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

Principle And Interpretation

It is mixed enzymic hydrolysate of lean selected fresh meat tissue under controlled conditions. It is highly nutritious it supports good growth of wide variety of microorganisms. It is recommended for general routine bacteriological work including mass cultivation.

Quality Control

Appearance

Light yellow to brownish yellow free flowing granules, 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 (121°C) for 15 minutes.

Reaction

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

pH

5.0- 7.0

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 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. C.albicans- Negative in 10 gms of sample
6. Clostridia- Negative in 10 gms of sample

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, Bacteriological, Granulated as an ingredient.

Cultural Response

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

Chemical Analysis

Total Nitrogen	$\geq 14.00\%$
Amino Nitrogen	$\geq 2.5\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 12.0\%$

Storage and Shelf Life

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

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