



## Peptone Type III, Bacteriological

RM7709

Peptone Type III, Bacteriological is prepared under controlled conditions by enzymatic digestion of selected fresh meat. It is recommended for general bacteriological work including mass cultivation of microorganisms.

### Principle And Interpretation

Peptone Type III, Bacteriological is highly nutritious since, it can be used for microbiological purpose as media ingredient. It can also be used for commercial production of enzymes, vaccines, antibiotics etc.

### Quality Control

#### Appearance

Light yellow to brownish yellow homogenous free flowing powder characteristic odour but not putrescent

#### Solubility

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

#### 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 :  $\leq 2000$  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 :  $\leq 100$  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 III, Bacteriological as an ingredient.

Organism	Growth
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#### Cultural response

<i>Escherichia coli</i> ATCC 25922	Luxuriant
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<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
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<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
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<i>Salmonella Typhi</i> ATCC 6539	Luxuriant
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<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
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**Chemical Analysis**

Total Nitrogen	$\geq 14.0\%$
Amino nitrogen	$\geq 3.0\%$
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.

**Disclaimer :**

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