



## Peptone, Certified

CR001

### Principle And Interpretation

Peptone, certified is prepared by enzymic digestion of selected fresh meat. It serves as a source of organic nitrogen and necessary growth factors in culture media, fermentation processes and biological preparations.

### Quality Control

#### Appearance

Light yellow to brownish yellow Homogenous Free flowing powder ,having Characteristic odour but not putrescent Free from visible foreign/black particles.

#### Solubility

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

#### Clarity

1% w/v aqueous solution is clear without any haziness and free from visible foreign/black particles after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Reaction

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

#### pH

6.10- 7.10

#### 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

#### 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, Certified as an ingredient.

#### Cultural Response

Organism	Growth
<b>Cultural response</b>	
<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	$\geq 10.80\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 14\%$

**Storage and Shelf Life**

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

**Disclaimer :**

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