



## Proteose Peptone, Certified

CR005

### Principle And Interpretation

Proteose Peptone, Certified is manufactured under controlled conditions carefully to retain all nutritive values. It is a mixture of peptides and free amino acids. It is employed in media used for bulk production of antibiotics, enzymes, bacterial toxins etc.

### Quality Control

#### Appearance

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 (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 with added 5 -7% sterile defibrinated blood after incubation at 35-37°C for 18-48 hours by preparing Blood Agar Base No. 2, using Proteose Peptone as an ingredient.

#### Cultural Response

Organism	Growth	Haemolysis
<i>Staphylococcus aureus</i> ATCC 25923	Good-luxuriant	beta
<i>Streptococcus pyogenes</i> ATCC 19615	Good-luxuriant	beta
<i>Streptococcus pneumoniae</i> ATCC 6303	Good-luxuriant	alpha
<i>Neisseria meningitidis</i> ATCC 13090	Good-luxuriant	none

**Chemical Analysis**

Total Nitrogen	$\geq 12.50\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 3.88\%$
Loss on drying	$\leq 5.0\%$
Residue on ignition	$\leq 20\%$

**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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