



## Proteose Peptone A

RM6394

It is recommended for cultivation of fastidious pathogens and particularly for bulk production of antibiotics, enzymes, veterinary preparations and bacterial toxins especially diphtheria toxin.

### Principle And Interpretation

Proteose Peptone A is manufactured under controlled conditions while maintaining degree of hydrolysis so as to retain its nutritive value. It is obtained by enzymatic hydrolysis of protein, rich in proteoses, peptide and free amino acids.

### Quality Control

#### Appearance

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

#### Solubility

Soluble in distilled/purified water, insoluble in alcohol.

#### Clarity

1% w/v aqueous solution is clear without any 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. *E.coli*-Negative in 10 gms of sample2. *Salmonella* species-Negative in 10 gms of sample3. *Pseudomonas aeruginosa*- Negative in 10 gms of sample4. *Staphylococcus aureus*- Negative in 10 gms of sample5. *C.albicans*- Negative in 10 gms of sample6. 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<br>Cultural response                | Growth         | Haemolysis |
|--|----------------|------------|
| <i>Staphylococcus aureus</i><br>ATCC 25923   | Good-luxuriant | beta       |
| <i>Streptococcus pyogenes</i><br>ATCC 19615  | Good-luxuriant | beta       |
| <i>Streptococcus pneumoniae</i><br>ATCC 6303 | Good-luxuriant | alpha      |
| <i>Neisseria meningitidis</i><br>ATCC 13090  | Good-luxuriant | none       |

**Chemical Analysis**

|                     |               |
|---------------------|---------------|
| Total Nitrogen      | $\geq 12.0\%$ |
| Amino Nitrogen      | $\geq 3.50\%$ |
| Sodium chloride     | $\leq 12.0\%$ |
| Loss on drying      | $\leq 5.0\%$  |
| Residue on ignition | $\leq 20.0\%$ |

**Storage and Shelf Life**

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

**Disclaimer :**

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