



Proteose Peptone A, HiVeg

RM6394V

Recommended for cultivation of fastidious pathogens and particularly for bulk production of antibiotics, enzymes, veterinary preparations and bacterial toxins, specially diphtheria toxins.

Principle And Interpretation

Proteose Peptone A, HiVeg is manufactured under controlled conditions from vegetable sources. It provides nitrogen in readily available form as it is rich in proteoses, peptide and free amino acids which supports luxuriant growth of bacteria. Growth performance is comparable with Proteose Peptone A (RM6394).

Quality Control

Appearance

Light yellow to yellow with slight green tinge 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

5.50- 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 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 incubation at 35 - 37°C for 18-48 hours by preparing Proteose HiVeg Agar (MV1176), using Proteose Peptone A, HiVeg as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
<i>Vibrio cholerae</i> (15748)	Luxuriant
<i>Vibrio</i> <i>parahaemolyticus</i> (11344)	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 11.0\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 6.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 20.0\%$

Storage and Shelf Life

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

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