



Technical Data

HiVeg™ Peptone No. 3

RM005V

It is highly nutritious and can be employed in culture media for bulk production of antibiotics, enzymes, veterinary preparations, bacterial toxins, etc. It is recommended for use in media that support good growth of a large number of microorganisms including Staphylococci, Streptococci, Pneumococci, Meningococci, Gonococci, among others which require a highly nutritious medium. It is not recommended for carbohydrate studies.

Principle And Interpretation

HiVeg Peptone No. 3 is an enzymic hydrolysate of vegetable proteins and recommended for cultivation of fastidious pathogens. It can successfully replace Proteose peptone (RM005).

Quality Control

Appearance

Light yellow to yellow, may have a slight greenish tinge Homogenous Free flowing powder ,having Characteristic odour of protein, derived from vegetable source.

Solubility

Freely 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 HiVeg Peptone No 3 as an ingredient.

Organism

Growth

Cultural response

Vibrio cholerae (15748) Luxuriant

Vibrio Luxuriant

parahaemolyticus(11344)

Chemical Analysis

Total Nitrogen	$\geq 10.0\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 12\%$

Storage and Shelf Life

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

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