HIVEG™ PEPTONE NO. 4

RM006V

Recommended for use as culture media ingredient in variety of media for cultivation of yeasts and moulds.

Principle And Interpretation

HiVeg Peptone No. 4 is prepared under controlled condition from vegetable proteins. It is highly nutritious and supports heavy growth of a wide variety of microorganisms comparable with Peptone M (RM006).

Quality Control

Appearance
Light yellow to yellow, may have a slight green 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 (121ºC) for 15 minutes.

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

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 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 after incubation at 25-30°C for 48-72 hours by preparing Malt Extract HiVeg Agar (MV137) using HiVeg Peptone No.4 as an ingredient.

Cultural Response

Organism	**Growth**
Cultural response	
Candida albicans ATCC 10231	Luxuriant
Saccharomyces cerevisiae ATCC 9763	Luxuriant
Aspergillus brasiliensis ATCC 16404	Luxuriant

Chemical Analysis

Total Nitrogen	>= 9.50%
Amino Nitrogen	>= 3.0%
Sodium chloride	<= 5.0%
Loss on drying	<= 7.0%
Residue on ignition	<= 18%

Storage and Shelf Life

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