



Technical Data

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 (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 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	
<i>Candida albicans</i> ATCC 10231	Luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	Luxuriant
<i>Aspergillus brasiliensis</i> ATCC 16404	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 9.50\%$
Amino Nitrogen	$\geq 3.0\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 18\%$

Storage and Shelf Life

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

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