



Technical Data

HiVeg™ Peptone

RM001V

It is recommended for use as a culture media ingredient in variety of media as well as for commercial production of enzymes, vaccines, antibiotics and other products. It can successfully replace animal origin peptone (RM001) in all culture media.

Principle And Interpretation

HiVeg Peptone is an enzymic hydrolysate of vegetable proteins that gives comparable growth promoting properties as animal origin peptone.

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 35 - 37°C for 18-48 hours by preparing Nutrient HiVeg Agar (MV001), using HiVeg Peptone as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
<i>Escherichia coli</i> ATCC 25922	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant
<i>Enterobacter aerogenes</i> ATCC 13048	luxuriant
<i>Salmonella Typhi</i> ATCC 6539	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant

<i>Streptomyces albus</i> ATCC 3004	luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	luxuriant w/ beta haemolysis (With addition of sterile 5% sheep blood to above medium, after an incubation at 35-37°C for 48 hours.
<i>Neisseria gonorrhoeae</i> ATCC 19424	luxuriant w/ beta haemolysis (With addition of sterile 10% sheep blood to above medium heated to 80-90°C until blood has turned to chocolate brown and incubated in 10% CO2 atmosphere at 35-37°C for 48 hours).

Chemical Analysis

Total Nitrogen	>= 11.0%
Amino Nitrogen	>= 3.50%
Sodium chloride	<= 5.0%
Loss on drying	<= 7.0%
Residue on ignition	<= 15%

Storage and Shelf Life

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

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