



Technical Data

HiVeg™ Peptone (Gamma irradiated)

RM001VG

Principle And Interpretation

HiVeg™ Peptone(Gamma irradiated) is gamma irradiated sterile powder. It is an enzymic hydrolysate of vegetable proteins that gives comparable growth promoting properties as animal origin peptone. It is recommended for commercial production of enzymes, vaccines, antibiotics and other products.

Quality Control

Appearance

Light yellow to brownish 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

Sterility Testing

No growth is observed after 14 days for Bacteria at 30-35°C and for fungi at 20-25°C.

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(Gamma irradiated) 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</i> Typhi 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% CO ₂ atmosphere at 35-37°C for 48 hours).

Chemical Analysis

Total Nitrogen	$\geq 11.0\%$
AminoNitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 15\%$

Storage and Shelf Life

Store between 10- 30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.



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