



Technical Data

HiVeg™ Peptone C

RM6407V

The product can be used with other ingredients for cell culture applications. It can also be used for commercial production of enzymes, vaccines, antibiotics, etc.

Principle And Interpretation

HiVeg Peptone C is prepared under controlled conditions from vegetable proteins. It is highly nutritious and is recommended for use in cell culture. It can successfully replace Peptone, bacteriological (RM001).

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.

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

Cultural response

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

Endotoxin level

Passes

Cell Culture Tested

Passes

Cultural Response

Organism	Growth
Cultural response	
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant

Chemical Analysis

Total Nitrogen	$\geq 11.50\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 15.0\%$

Storage and Shelf Life

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

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