



HiVeg™ Hydrolysate C

RM6408V

It is recommended to be used for cell culture media. It can also be used in the production of various general media where it can be substituted for Casein enzymic hydrolysate, such as Tryptone Water, MIO Medium, MIL Medium etc. It is also used in the production of Sterility Testing Media and various Diagnostic Media.

Principle And Interpretation

HiVeg™ Hydrolysate, C is very rich source of amino nitrogen and proteins owing to amino acids content obtained from vegetable proteins. Its growth performance is at par with Casein Enzyme Hydrolysate, extracted from plant, recommended for use in cell culture.

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.

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 HiVeg Soyabean Casein Digest Medium (MV011), using HiVeg Hydrolysate C as an ingredient.

Endotoxin level

Passes

Cell Culture Tested

Passes

Cultural Response

Organism

Growth

Cultural response

Escherichia coli ATCC 25922

Characteristic, luxuriant growth

Pseudomonas aeruginosa ATCC 27853

Characteristic, luxuriant growth

Enterobacter aerogenes ATCC 13048

Characteristic, luxuriant growth

<i>Salmonella Typhi</i> ATCC 6539	Characteristic, luxuriant growth
<i>Staphylococcus aureus</i> ATCC 25923	Characteristic, luxuriant growth
<i>Staphylococcus albus</i> ATCC 3004	Characteristic, luxuriant growth
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant w/ beta haemolysis (With addition of sterile 5% sheep blood in above medium after 48 hours of incubation at 35-37°C)
<i>Neisseria gonorrhoeae</i> ATCC 19424	Luxuriant w/ beta haemolysis (With addition of sterile 10% sheep blood to above medium heated to 80 to 90°C until blood has turned to chocolate brown and incubated in 10% CO ₂ atmosphere after 48 hours of incubation at 35-37°C).

Chemical Analysis

Total Nitrogen	>= 12.0%
Amino Nitrogen	>= 3.50%
Sodium chloride	<= 5.0%
Loss on drying	<= 7.0%
Residue on ignition	<= 12.0%

Storage and Shelf Life

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

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