



HiVeg™ Pea Hydrolysate

RM9149

Principle And Interpretation

HiVeg™ Pea Hydrolysate is manufactured under controlled conditions from pea protein. It has very rich source of organic nitrogen. Ideal for industrial fermentations. It is excellent source as veg peptone for microbiological media.

Quality Control

Appearance

Off white to light yellow homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

Freely soluble in distilled/purified water, insoluble in alcohol and ether.

Clarity

1% w/v aqueous solution remains clear without 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 - 24 hours by preparing Plate Count HiVeg Agar (MV091) using HiVeg Pea hydrolysate, as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
<i>Bacillus subtilis</i> ATCC 6633	Luxuriant
<i>Enterococcus faecalis</i> ATCC 29212	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Lactobacillus casei</i> ATCC 9595	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant

Chemical Analysis

Total Nitrogen	>= 10.50%
AminoNitrogen	>= 2.0%
Sodium chloride	<= 5.0%
Loss on drying	<= 5.0%
Residue on ignition	<= 12.0%

Storage and Shelf Life

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

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