



Technical Data

HiVeg™ Peptone No. 1

RM635V

It is recommended for use in general purpose culture media for routine cultivation of a variety of microorganisms. It can also be used in mass scale cultivation of microorganisms for antibiotics, enzymes, vitamins production or for other similar products of microbial origin.

Principle And Interpretation

HiVeg Peptone No. 1 is an enzymic hydrolysate of specially selected vegetable proteins. It is recommended for use in bacteriological culture media that can successfully replace meat peptones (RM635).

Quality Control

Appearance

Light yellow to yellow may have slight green tinge, Homogenous Free flowing powder having Characteristic odour but not putrescent.

Solubility

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

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 an incubation at 35-37°C for 18-24 hours by preparing BPL HiVeg Agar (MV1020) using HiVeg Peptone No. 1 as an ingredient.

Cultural Response

Organism	Growth	Colour of colony
Cultural response		
<i>Bacillus subtilis</i> ATCC 6633	None-poor	-
<i>Enterococcus faecalis</i> ATCC 29212	None-poor	-
<i>Escherichia coli</i> ATCC 25922	Good-luxuriant	Yellow
<i>Salmonella Choleraesuis</i> ATCC 13312	Good-luxuriant	Pink-red
<i>Salmonella Enteritidis</i> ATCC 13076	Good-luxuriant	Pink-red

<i>Salmonella Typhimurium</i> ATCC 14028	Good-luxuriant	Pink - red
<i>Staphylococcus aureus</i> ATCC 25923	None-poor	-

Chemical Analysis

Total Nitrogen	$\geq 10.0\%$
Amino Nitrogen	$\geq 3.50\%$
Sodium chloride	$\leq 4.50\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 10.0\%$

Storage and Shelf Life

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

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