



Technical Data

HiVeg™ Peptone No. 1

RM635V

Intended use

HiVeg™ Peptone No. 1 is an enzymic hydrolysate of specially selected vegetable proteins. Recommended for use in bacteriological culture media that can successfully replace Meat peptone (RM635).

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product.

Performance and Evaluation

Performance of the product is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

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 is clear to slight opalescent 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 : \leq 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 : \leq 100 CFU/gram

Test for Pathogens

1. *Escherichia 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. *Candida 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 Nutrient HiVeg™ Agar (MV001) using HiVeg™ Peptone No. 1 as an ingredient.

Pshbo tn	Growth	Dpmpvs pdmpo
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	Poor-good	fmmp
<i>Salmonella Choleraesuis</i> ATCC 12011	Good-luxuriant	ol.sfe
<i>Salmonella enterica</i> serovar Enteritidis ATCC 13076 (WDCM 00030)	Good-luxuriant	ol.sfe
<i>Salmonella enterica</i> serovar Typhimurium ATCC 14028 (WDCM 00031)	Good-luxuriant	ol up sfe
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (WDCM 00034)	Inhibited	.

Chemical Analysis

Total Nitrogen	>= 10.0%
Amino Nitrogen	>= 3.50%
Sodium chloride	<= 4.50%
Loss on drying	<= 7.0%
Residue on ignition	<= 10.0%

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.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

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