



## HiVeg™ Infusion

RM191V

### Principle And Interpretation

HiVeg™ Infusion is dehydrated infusion obtained from vegetable proteins under controlled conditions. Growth supporting properties of this infusion is comparable with Heart Infusion Powder (RM191). Used in media employed for cultivation of fastidious organisms, like *Brucella* species, *Mycoplasma*, Pneumococci, Gonococci, Meningococci, *Actinomyces*, fungi, etc. and mass cultivation of microorganisms for the preparations of vaccines and antibiotic sensitivity test.

### Quality Control

#### Appearance

Light yellow to yellow, may have a slight green tinge homogeneous 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 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 : <= 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. *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 was observed an incubation at 35-37°C for 18-48 hours on HI Agar, HiVeg™ (MV169) using HiVeg™ infusion powder as an ingredient.

#### Cultural Response

Organism	Growth w/o blood	Growth with 5% blood	Haemolysis
<i>Staphylococcus aureus</i> ATCC 25923	Good-luxuriant	Luxuriant	Beta
<i>Neisseria meningitidis</i> ATCC 13090	Good-luxuriant	Luxuriant	None
<i>Streptococcus pneumoniae</i> ATCC 6303	Good-luxuriant	Luxuriant	Alpha
<i>Streptococcus pyogenes</i> ATCC 19615	Good-luxuriant	Luxuriant	Beta

**Chemical Analysis**

Total Nitrogen	>= 11.0%
Amino Nitrogen	>= 3.80%
Sodium chloride	<= 3.50%
Loss on drying	<= 7.0%
Residue on ignition	<= 11.0%

**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. Seal the container tightly after use.

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