



# Technical Data

## HiVeg™ Extract

RM002V

It can be used successfully in following culture media in place of Beef Extract: General purpose media : Beef Extract Agar, HiVeg (MV806) / HiVeg Broth (MV807) and Nutrient HiVeg Agar(MV001) / Broth ( MV002) etc. Diagnostic media : CLED HiVeg Agar (MV352/MV792), DCLS HiVeg Agar (MV160), TSI HiVeg Agar (MV021), Wilson Blair HiVeg Agar Base (MV331), etc. Bulk production of antibiotics, enzymes and other products.

### Principle And Interpretation

HiVeg Extract is prepared under controlled condition by extracting vegetable proteins. Its Recommended concentration for use is 0.3 - 0.5% w/v and the growth promoting properties are comparable to Beef Extract Powder (RM002).

### 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.

#### Clarity

1% w/v aqueous solution is clear without any 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 18-48 hours by preparing Nutrient HiVeg Agar (MV001),usingHiVeg Extract as an ingredient.

#### Cultural Response

Organism	Growth
<b>Cultural response</b> <i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant

*Streptococcus pyogenes* Luxuriant  
ATCC 19615

### Chemical Analysis

Total Nitrogen	$\geq 9.0\%$
Amino Nitrogen	$\geq 3.0\%$
Sodium chloride	$\leq 5.0\%$
Loss on drying	$\leq 7.0\%$
Residue on ignition	$\leq 12\%$

### Storage and Shelf Life

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

#### Disclaimer :

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