



Technical Data

HiVeg™ Peptone No. 2

RM020V

It is recommended to be used in following media: Antibiotic assay media yielding low but reliable and reproducible growth levels. Media for fermentation studies : Purple HiVeg Agar Base (MV098), Purple HiVeg Broth Base (MV284), Wort HiVeg Media (MV129, MV333) Urea HiVeg Agar Base (MV112), MacConkey HiVeg Agar (MV008, MV081), Violet Red HiVeg Agar (MV049), etc.

Principle And Interpretation

HiVeg Peptone No. 2 is prepared under controlled conditions by enzymic digestion of vegetable proteins. It has nutritional characteristics that matches with Gelatin peptone (RM020).

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 and ether.

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

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing MacConkey HiVeg Agar (MV082) using HiVeg Peptone No.2 as an ingredient.

Cultural Response

Organism	Growth	Colour of Colony
Cultural response		
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Pink to red with bile precipitate
<i>Enterobacter aerogenes</i> ATCC 13048	Luxuriant	Pale pink to red
<i>Enterococcus faecalis</i> ATCC 29212	Fair to good	Colourless to pink
<i>Proteus vulgaris</i> ATCC 13315	Luxuriant	Colourless
<i>Salmonella Paratyphi A</i> ATCC 9150	Luxuriant	Colourless

<i>Shigella flexneri</i> ATCC 12022	Fair to good	Colourless
<i>Salmonella Paratyphi B</i> ATCC 8759	Luxuriant	Colourless
<i>Salmonella Enteritidis</i> ATCC 13076	Luxuriant	Colourless
<i>Salmonella Typhi</i> ATCC 6539	Luxuriant	Colourless
<i>Staphylococcus aureus</i> ATCC 25923	Fair-good	Pale pink -red

Chemical Analysis

Total Nitrogen	>= 11.50%
Amino Nitrogen	>= 3.80%
Sodium chloride	<= 4.0%
Loss on drying	<= 7.0%
Residue on ignition	<= 11.0%

Storage and Shelf Life

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

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