HiVeg™ Special Peptone

RM015V

Principle And Interpretation

HiVeg™ Special Peptone is manufactured under controlled conditions from vegetable proteins. It is especially adapted for the preparation of media for culturing fastidious bacteria and supports cultural characteristics comparable with Peptone special (RM015). It can be used for the preparation of media for cultivation of following bacteria: Neisseria species: G C HiVeg™ Agar Base (MV434), Thayer Martin HiVeg™ Medium Base (MV413). Yersinia species: Yersinia Selective HiVeg™ Agar Base (MV843). Staphylococci and Streptococci: Columbia Blood Agar Base HiVeg™ (MV144).

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 to slight opalescent after autoclaving at 15 lbs pressure (121ºC) for 15 minutes.

Reaction

Reaction of 2% w/v aqueous solution at 25ºC.

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 observed with added 5% w/v sterile defibrinated blood after an incubation at 35-37ºC for 24-48 Columbia Blood Agar Base HiVeg™ (MV144) using HiVeg™ Special Peptone as an ingredient.

Cultural response

Organism	Growth	Haemolysis
Neisseria meningitidis ATCC 13090	Luxuriant	none
Staphylococcus aureus ATCC 25923	Luxuriant	beta / gamma
Staphylococcus epidermidis ATCC 12228	Luxuriant	gamma
Streptococcus pneumoniae ATCC 6303	Luxuriant	alpha
Streptococcus pyogenes ATCC 19615	Luxuriant	beta

Chemical Analysis

Total Nitrogen	>= 11.50%
Amino Nitrogen	>= 3.80%
Sodium chloride	<= 4.0%
Loss on drying	<= 7.0%
Residue on ignition	<= 15.0%

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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