



HiVeg™ Acid Hydrolysate

RM013V

Intended use

HiVeg™ Acid Hydrolysate is an acid hydrolysis of vegetable proteins suitable for use in culture media requiring amino acid mixture. It is used in antibiotic sensitivity test media, vaccine preparation media, fermentation etc. Its growth promotional characteristics matches with Acicase, Technical (RM013).

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 be 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 medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Cream to brownish yellow, may have slight green tinge homogeneous free flowing powder 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 (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 5.5- 7.5
- **Microbial Load** :
Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35°C for not less than 3 days
- Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25°C for not less than 5 days.
- **Test for pathogens** : 1. *Escherichia coli*- Absent/gram of sample 2. *Salmonella* species- Absent/10 gram of sample
- 3. *Pseudomonas aeruginosa*- Absent/gram of sample 4. *Staphylococcus aureus*- Absent/gram of sample 5. *Candida albicans*- Absent/gram of sample 6. *Clostridia*- Absent/gram of sample
- **Cultural response** : Cultural response observed after incubation at 35 - 37°C for 18-48 hours by preparing Mueller Hinton Hiveg™ Agar (M173), using HiVeg™ Acid Hydrolysate Powder as an ingredient.

Cultural Response

Organism	Growth
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant
<i>Haemophilus influenzae</i> ATCC 49247	Good-luxuriant (on Mueller Hinton Chocolate Agar)
<i>Neisseria gonorrhoeae</i> ATCC 49226	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025)	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923(WDCM 00034)	Luxuriant
<i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)	Luxuriant
<i>Streptococcus pneumoniae</i> ATCC 6305	Luxuriant (on Mueller Hinton Blood Agar)

Chemical Analysis :Total Nitrogen : ≥ 6.00 % α - Amino Nitrogen : ≥ 3.00 %Residue on ignition (Ash) : ≤ 44.00 %Loss on drying (Moisture) : ≤ 5.00 %**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.



Storage temperature



Do not use if package is damaged



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Disclaimer :

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