



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Casein Acid Hydrolysate, Certified (Acicase, Certified)

Product Code: BC2013

Principle & Interpretation

Acicase, Certified is acid digest of milk protein, rich source of free amino acids due to its acid hydrolytic nature. It contains high amount of sodium chloride. It is used in culture media where microbial growth is measured optically for example Antibiotic Assay Media

Quality Control

Appearance

Off white to light yellow homogenous free flowing characteristic but not putrescent

Solubility

Freely soluble in distilled 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

pH of 2% w/v aqueous solution at 25°C , 5.0 - 7.0

Microbial Load:

Total aerobic microbial count (cfu/gm)

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

Indole Test

Tryptophan content: Passes

Cultural response

Cultural response observed after incubation at 35 - 37°C for 18-48 hours by preparing Mueller Hinton Agar (DM1173), using Acicase, Certified as an ingredient.

Cultural response

Organism

Escherichia coli ATCC 25922(WDCM 00013)
Haemophilus influenzae ATCC 49247
Neisseria gonorrhoeae ATCC 49226
Pseudomonas aeruginosa ATCC 27853(WDCM 00025)
Staphylococcus aureus subsp. *aureus* ATCC25923 (WDCM 00034)
Enterococcus faecalis ATCC 29212(WDCM 00087)
Streptococcus pneumoniae ATCC 6305

Growth

Luxuriant
Good-luxuriant(on Mueller Hinton Chocolate Agar)
Luxuriant
Luxuriant
Luxuriant
Luxuriant
Luxuriant(on Mueller Hinton Blood Agar)

Chemical Analysis

Total Nitrogen : ≥ 7.50 %

Amino Nitrogen : ≥ 5.00 %

Sodium chloride : ≤ 39.00 %

Loss on drying : ≤ 5.00 %

Residue on ignition : ≤ 39.00 %



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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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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