

# **Technical Data**

Acicase, Certified CR013

# **Principle And 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. It is eqivalent to Casein Acid Hydrolysate, Certified.

# **Quality Control**

### **Appearance**

Off white to light yellow homogenous free flowing powder, having characteristic but not putrescent odour.

#### **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.

#### pН

5.00-7.00

#### **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: Absent

#### **Thymine / Thymidine content**

Following discs were tested for standard ATCC strains and zone of inhibition were measured after an incubation 35-37°C for 18 hours. (As per CLSI Protocol M6-A2 & Standards as per CLSI M100-S19)

# Escherichia coli ATCC 25922

Co-Trimoxazole COT 25mcg (SD010) 23mm-29mm

#### Staphylococcus aureus ATCC 25923

Co-Trimoxazole COT 25mcg (SD010) 24mm- 32mm

#### **Enterococcus faecalis ATCC 29212**

Co-Trimoxazole COT 25mcg (SD010) >= 20mm Trimethoprim TR 5mcg (SD039) >= 20mm

#### Staphylococcus aureus ATCC 43300

Oxacillin OX 1mcg (SD088) No zone or very hazy zone.

HiMedia Laboratories Technical Data

#### **Divalent cation content**

Following discs were tested for standard ATCC strains and zone of inhibition were measured after an incubation 35-37°C for 18 hours. (As per CLSI Protocol M6-A2 & Standards as per CLSI M100-S19)

#### Staphylococcus aureus ATCC 25923

Tetracycline TE 30mcg (SD037) 24mm- 30mm

Escherichia coli ATCC 25922

Tetracycline TE 30mcg (SD037) 18mm- 25mm

Pseudomonas aeruginosa ATCC 27853

Amikacin AK 30mcg (SD035) 18mm- 26mm Gentamicin GEN 10mcg (SD016) 16mm-21mm Tobramycin TOB 10mcg (SD044) 19mm-25mm

#### Cultural response

Cultural response observed after an incubation at 35-37°C for 18-48 hours by preparing Mueller Hinton Agar (M173) using Acicase, Certified as an ingredient.

#### **Cultural Response**

**Organism** Growth

**Cultural response** 

Escherichia coli ATCC 25922 Luxuriant

Haemophilus influenzae Good-luxuriant(on Mueller Hinton Chocolate Agar)

ATCC 49247

Neisseria gonorrhoeae Luxuriant

ATCC 49226

Pseudomonas aeruginosa Luxuriant

ATCC 27853

Staphylococcus aureus Luxuriant

ATCC 25923

Enterococcus faecalis ATCC Luxuriant

29212

Streptococcus pneumoniae Luxuriant (on Mueller Hinton Blood Agar)

ATCC 6305

### **Chemical Analysis**

Total Nitrogen >= 7.50%
AminoNitrogen >= 5.0%
Sodium chloride <= 39%
Loss on drying <= 5.0%
Residue on ignition <= 39%

#### **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.

 $\epsilon$ 

# Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.