



Yeast Extract Powder, Certified

CR027

Principle And Interpretation

Yeast Extract Powder, Certified is a dried extract of yeast cells, carefully manufactured under controlled conditions to retain its vitamin content and nutritive values. It is a rich source of vitamin B-complex recommended at 0.3 - 0.5% concentration for cultivation of microorganisms encountered in milk or other dairy products.

Quality Control

Appearance

Light yellow to brownish yellow homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

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

6.50 - 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 after an incubation at 35-37°C for 18-24 hours by preparing Plate Count Agar (M091) using Yeast Extract Powder, Certified as an ingredient.

Cultural Response

Organism	Growth
<i>Bacillus subtilis</i> ATCC 6633	Luxuriant
<i>Enterococcus faecalis</i> ATCC 29212	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant
<i>Lactobacillus casei</i> ATCC 9595	Luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant

Chemical Analysis

Total Nitrogen	>= 10.0%
Amino Nitrogen	>= 3.70%
Sodium chloride	<= 3.0%
Loss on drying	<= 6.0%
Residue on ignition	<= 18%

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.

Revision : 05 / 2018

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.