



## Yeast Extract Powder

RM027

### Intended use

Yeast Extract Powder is prepared by drying the extract from autolysing yeast cells (*Saccharomyces*) specially cultivated for this purpose, under controlled condition by retaining all the nutritive values, amino acids, vitamins, especially B group and growth factors. It is rich in vitamins and other nutritive substances such as free amino acids. It is a low salt extract refined for use in microbial culture media, fermentation and other biological products. Also used with Meat extract B or in place of Meat extract B.

### 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** : Light yellow to brownish yellow homogenous free flowing powder characteristic odour but not putrescent.
- **Solubility** : Freely soluble in distilled/ purified water, insoluble in alcohol.
- **Clarity** : 2% w/v aqueous solution remains clear and neutral without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 6.5 - 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
- **Indole test** : Tryptophan content: Passes
- **Test for coagulable protein** : As per method specified in USP 37, NF32. No formation of precipitate.

→ **Cultural response** : Cultural response observed after incubation at 35-37°C for 18-24 hours by preparing Plate Count Agar (M091) and Plate Count Hiveg™ Agar (MV091) using Yeast extract powder as an ingredient.

### Cultural Response

Organism	Growth
<i>Bacillus subtilis</i> subsp. <i>Spizizenii</i> ATCC 6633 (WDCM 00003)	Luxuriant
<i>Enterococcus faecalis</i> ATCC 29212(WDCM 00087)	Luxuriant
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	Luxuriant
<i>Lactobacillus rhamnosus</i> ATCC 9595	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (WDCM 00034)	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant

### Chemical Analysis :

Total Nitrogen :  $\geq 10.50$  %

Amino Nitrogen :  $\geq 4.50$  %

Sodium chloride :  $\leq 5.00$  %

Loss on drying :  $\leq 6.00$  %

Residue on ignition :  $\leq 15.00$  %

### 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



HiMedia Laboratories Pvt Limited  
C-40,21/Y, MIDC, Wagle Ind Area  
Thane(W)-400604,Maharashtra,India

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### Disclaimer :

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