



## Yeast Extract Paste

RM025

### Principle And Interpretation

Yeast Extract Paste is manufactured under controlled condition by concentrating autolysed solution of yeast cells (*Saccharomyces*) to achieve minimum 55% solid content, by retaining all the nutritive values. It is suitable for cultivation of various microorganisms, fermentation and other biological products.

### Quality Control

#### Appearance

Brownish yellow to brown homogenous highly viscous paste, having characteristic odour but not putrescent.

#### Solubility

Freely soluble in distilled/purified water, insoluble in alcohol.

#### Clarity

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### Reaction

Reaction of 2% w/v aqueous solution at 25°C.

#### pH

4.70- 6.70

#### 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 :  $\leq 10000$  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 :  $\leq 1000$  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 HiVeg™ Agar (MV091) using Yeast Extract Paste as an ingredient.

#### Cultural Response

Organism	Growth
<b>Cultural Response</b>	
<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 (on dry basis)	$\geq 10.50\%$
Amino Nitrogen (on dry basis)	$\geq 3.80\%$
Sodium chloride (on dry basis)	$\leq 5.0\%$
Residue on ignition (on dry basis)	$\leq 15\%$
Total Solid	$\leq 70\%$

### Storage and Shelf Life

Store below 30°C. Use before expiry date on the label.



#### Disclaimer :

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