

## Yeast Extract Powder, Type I

**RM668**

It is recommended for general laboratory media and for commercial production of enzymes, vaccines, antibiotics, steroids & other microbiological products.

### Principle And Interpretation

Yeast Extract Type I is prepared from specially cultivated yeast cells. It is rich in vitamins and other nutritive substances and so, recommended for general laboratory media

### 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

6.10- 7.10

#### 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. *E.coli*-Negative in 10 gms of sample2. *Salmonella* species-Negative in 10 gms of sample3. *Pseudomonas aeruginosa*-Negative in 10 gms of sample4. *Staphylococcus aureus*- Negative in 10 gms of sample5. *C.albicans*- Negative in 10 gms of sample6. *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 Nutrient Agar (M001) and Nutrient HiVeg Agar (MV001) using Yeast Extract Powder, Type I as an ingredient.

#### Cultural Response

| Organism | Growth |
|----------|--------|
|----------|--------|

#### Cultural Response

|                                    |                |
|------------------------------------|----------------|
| <i>Escherichia coli</i> ATCC 25922 | Good-luxuriant |
|------------------------------------|----------------|

|  |                |
|--|----------------|
| <i>Pseudomonas aeruginosa</i> ATCC 27853 | Good-luxuriant |
|--|----------------|

|                                   |                |
|-----------------------------------|----------------|
| <i>Salmonella Typhi</i> ATCC 6539 | Good-luxuriant |
|-----------------------------------|----------------|

|   |                |
|---|----------------|
| <i>Staphylococcus aureus</i> ATCC 25923 | Good-luxuriant |
|---|----------------|

|  |                |
|--|----------------|
| <i>Streptococcus pyogenes</i> ATCC 19615 | Good-luxuriant |
|--|----------------|

**Chemical Analysis**

|                     |          |
|---------------------|----------|
| Total Nitrogen      | >= 8.50% |
| AminoNitrogen       | >= 3.0%  |
| Sodium chloride     | <= 8.0%  |
| Loss on drying      | <= 6.0%  |
| Residue on ignition | <= 22.0% |

**Storage and Shelf Life**

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

**Disclaimer :**

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