



## Yeast Extract Powder, Type I

RM668

### Principle And Interpretation

Yeast Extract Powder, Type I is specially prepared from specially cultivated water soluble extracts of yeast cells, which is a rich source of vitamins and other nutritive substances, especially those belonging to B-complex. It is particularly used for general routine bacteriological work including mass cultivation.

### 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 to slight opalescent 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 : <= 10,000 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 Nutrient Agar (M001) and Nutrient HiVeg™ Agar (MV001) using Yeast Extract Powder, Type I as an ingredient.

#### Cultural Response

Organism	Growth
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC (WDCM 00025)	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923(WDCM 00034)	Luxuriant
<i>Salmonella enterica</i> serovar Typhi ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Salmonella enterica</i> serovar Enteritidis ATCC 13076 (WDCM 00030)	Luxuriant
<i>Salmonella enterica</i> serovar Typhimurium ATCC 14028 (WDCM00031)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 9610 (WDCM 00038)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 23715 (WDCM 00160)	Luxuriant

**Chemical Analysis**

Total Nitrogen	$\geq 8.50\%$
Amino Nitrogen	$\geq 3.0\%$
Sodium chloride	$\leq 8.0\%$
Loss on drying	$\leq 6.0\%$
Residue on ignition	$\leq 22.0\%$

**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.

Revision : 09/2021

**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.