



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 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. C.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
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	$\geq 8.50\%$
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 below 30°C. Use before expiry date on the label.

Disclaimer :

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