



Malt Extract, Certified

CR004

Principle And Interpretation

It contains a mixture of carbohydrates (mainly maltose) and growth factors, so it is ideally suitable for use in media for cultivation of fungi.

Quality Control

Appearance

Cream to brownish yellow Homogenous Free flowing powder

Solubility

Freely soluble in distilled/purified water producing slight haziness, 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 10% w/v aqueous solution at 25°C.

pH

4.80- 5.80

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 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 : \leq 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

Cultural response

Cultural response observed after an incubation at 25-30°C for 48-72 hours by preparing Malt Extract Agar (M137) using Malt Extract as an ingredient.

Cultural Response

Organism	Growth
Cultural response	
<i>Candida albicans</i> ATCC 10231	Luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	Luxuriant
<i>Aspergillus brasiliensis</i> ATCC 16404	Luxuriant

Chemical Analysis

Sodium chloride	<= 1.00%
Loss on drying	<= 6.00%
Residue on ignition	<= 4.50%

Storage and Shelf Life

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

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