



## Malt Extract, Certified

CR004

### Principle And Interpretation

It is manufactured by drying extract of sprouted malt grains at lower temperatures to retain its nutritive properties. It is very sensitive to high temperatures and overheating darkens the medium. It is certified grade of malt extract very rich in mixture of carbohydrates (mainly maltose) and growth factors, so it is suitable for use in media for cultivation of fungi-yeast and moulds.

### 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 : <= 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. *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.

#### 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
<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 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 of ignition. Seal the container tightly after use.

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