



## Malt Extract Powder

RM004

It is rich in carbohydrates and is ideally suitable for use in media employed for cultivation of fungi such as, Malt Agar, Malt Extract Agar, Malt Extract Broth, Yeast Malt Agar, Yeast Malt Broth, etc.

### Principle And Interpretation

Malt Extract Powder is prepared from aqueous extract of sprouted malt grains and dried at low temperature to preserve nutrients present in the form of carbohydrates and nitrogenous substances.

It is a brownish yellow coloured, homogeneous powder that dissolves in distilled water. An aqueous solution of it is yellow coloured.

### 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 2% w/v aqueous solution at 25°C.

#### pH

5.50- 7.50

#### 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

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

**Chemical Analysis**

Protein Content	$\geq 5.0\%$
Carbohydrate Content	$\geq 70\%$
Loss on drying	$\leq 5.0\%$

**Storage and Shelf Life**

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

**Disclaimer :**

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