



Technical Data Sheet

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Malt Extract

RDM-ME-01

Principle: Malt extract powder is prepared from aqueous extract of sprouted barley malt grains and dried at low temperature to preserve nutrients present in the form of carbohydrates and nitrogenous substances. It is a good source of carbohydrate particularly maltose, approximately 60-65%. The malt extract is used for cultivation of yeasts and molds. The commonly used malt extract media are malt extract agar, malt yeast extract sucrose agar etc.

Use: Rich in carbohydrates and recommended to use as culture media ingredient in variety of media cultivation of fungi etc.,

Quality Control

Appearance	Light beige colored homogeneous, hygroscopic free flowing, powder
Solubility (2%)	Soluble in distilled water
Clarity	Light amber color, clear solution
pH	6.00 – 7.50
Loss on drying	NMT 5.0%

Chemical analysis

Total Carbohydrates	NLT 70%
Protein	NLT 5%
Residue on ignition	NMT 5.0% as estimated by AOAC Method

Bacteriological testing: Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using Malt extract under test.

Test for pathogens:

Total Plate Count	NMT 10000 cfu per grams
Yeast & Molds	Absent per 10 grams
<i>Escherichia coli</i>	Absent per 10 grams
<i>Salmonella</i>	Absent per 10 grams
<i>Staphylococcus aureus</i>	Absent per 10 grams

Culture response: Cultural Response of the media prepared using the malt extract in malt extract agar determined by inoculating 50-100 cfu at 30±2°C for 48-96 hours incubation.

<i>Candida albicans</i> (ATCC 10231)	Luxuriant growth
<i>Aspergillus brasiliensis</i> (ATCC 16404)	Luxuriant growth

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion

of task.

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CHAITANYA AGRO BIOTECH PVT. LTD.

An ISO 11133:2014, ISO 13485:2016, ISO 9001:2015 CE, CIN NO.: U24210MH1995PTC095220S,

S. No. 120/2, Laxmi Nagar, Umbarnala Road, Malkapur-443101, Dist.: Buldana (M.S.) India. Customer Care +91-8669083859
rdmsales@chaitanyagroupindia.com, mkt.cabt@chaitanyagroupindia.com, www.chaitanyagroupindia.com