Malt Extract Powder

Intended Use
An ideal ingredient used in the preparation of culture media for the cultivation of Yeats and Moulds.

Summary and Principle
Malt extract is a water-soluble portion of malted barley used in culture media for the cultivation of yeasts and moulds because it contains a high concentration of reduced sugars, particularly maltose. It provides source of carbon, protein and nutrients in culture media.

Storage and Stability
Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.
Note: TSE/BSE certificate is available on request.

Directions
Refer to the final concentration in the formula of the medium being prepared.

Quality Control

Test	Specification
Appearance	Yellowish brown coloured powder.
Solubility	Completely soluble in water.
Colour and Clarity of 1% w/v aqueous solution after autoclaving at 15 psi / 15 min	Light yellow coloured, clear solution.
pH after autoclaving	6.5 ± 1.5
Ash Content	Not More Than 12%
Loss on Drying (Moisture Content)	Not More Than 5%
Total Protein Content	Not More Than 5g/dl
Total microbial count	Less than 5000 cfu/g
E. coli	Absent
Salmonella	Absent
Pseudomonas aeruginosa	Absent
Staphylococcus aureus	Absent

Cultural Response
Cultural characteristics observed after an incubation of 2-5 days for fungi at 20°C-25°C.

Organism (ATCC)	Growth
Saccharomyces cerevisiae NRRL Y-567 (9763)	Good
Candida albicans 3147 (10231)	Good
Aspergillus brasiliensis WLRI 034(120) (16404)	Good

Note: Growth for *Aspergillus brasiliensis* was observed after 72 hours at 20°C-25°C for quantitative test and the same is carried out for qualitative test and confirmed characteristic growth (White mycelial growth with black spores) after 4-5 days.

Typical Analysis

NaCl (%)	0.2	Isoleucine (% Free)	*
Calcium (µg/g)	111	Isoleucine (% Total)	0.1
Magnesium (µg/g)	130	Leucine (% Free)	*
Potassium (µg/g)	603	Leucine (% Total)	0.1
Sodium (µg/g)	713	Lysine (% Free)	*
Chloride (%)	0.07	Lysine (% Total)	0.1
Sulfate (%)	0.07	Methionine (% Free)	*
Phosphate (%)	0.08	Methionine (% Total)	*
Alanine (% Free)	0.1	Phenylalanine (% Free)	*
Alanine (% Total)	0.1	Phenylalanine (% Total)	0.1
Arginine (% Free)	*	Proline (% Free)	0.1
Arginine (% Total)	0.1	Proline (% Total)	0.1
Asparagine (% Free)	*	Serine (% Free)	*
Aspartic acid (% Free)	*	Serine (% Total)	0.1
Aspartic acid (% Total)	0.1	Threonine (% Free)	*
Cystine (% Free)	*	Threonine (% Total)	*
Glutamic Acid (% Free)	*	Tryptophan (% Free)	*
Glutamic Acid (% Total)	0.2	Tyrosine (% Free)	*
Glutamine (% Free)	*	Tyrosine (% Total)	*
Glycine (% Free)	*	Valine (% Free)	*
Glycine (% Total)	0.1	Valine (% Total)	0.1
Histidine (% Free)	*		
Histidine (% Total)	*		

* Below level of detection

Reference

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
202130730500	Malt Extract Powder	500 g
202130732500	Malt Extract Powder	2.5 k
202130739925	Malt Extract Powder	25 k (Bag)
202130739825	Malt Extract Powder	25 k (Drum)