

4142 – MALT EXTRACT POWDER (Bacto. Grade)

REF NO: TBL/QA/SS/LC/4142	STANDARD SPECIFICATION FOR MALT EXTRACT POWDER (Bacto. Grade)	Rev. No: 03
Issue No: 04		Review Date: 26/10/2024
Issue Date: 27/10/2021		Product code: 4142

PRODUCT PROPERTIES

C.A.S Number	8002-48-0
Chemical Formula	NA
Formula weight	NA
Functional Uses	Malt Extract Powder (Bacto. Grade) is used in the culture of yeasts and molds.
Standard Packaging	500 gm. & 25 kg.

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	Creamish yellow colour free flowing powder having sweet malty smell.
Solubility (2% soln. at 25 ^o C)	Soluble in distilled water, clear solution.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (2% Soln. at 25 ^o C)	5.0 – 7.0
Loss on drying (at 105 ^o C)	NMT – 5.0%
Total Carbohydrates	NLT – 70.0%
Total Protein	NMT – 6.0%
Total ash	NMT – 5.0%

MICROBIOLOGICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Total viable count	NMT – 10,000 cfu/gm
<i>Escherichia coli</i>	Negative
<i>Salmonella spp.</i>	Negative
<i>Staphylococcus aureus</i>	Negative
Yeast & Moulds	NMT – 100 cfu/gm



GROWTH PROMOTION TEST

Cultural Characteristic observed in 2% Malt Extract Powder (Bacto. Grade) and 1.5% agar after incubation at 35-37°C for 18-24 hours.

MICROORGANISMS	ATCC	GROWTH
<i>Aspergillus brasiliensis</i>	16404	Good-Luxuriant
<i>Candida albicans</i>	10231	Good-Luxuriant
<i>Saccharomyces cerevisiae</i>	9763	Good-Luxuriant

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.