



ISO 9001:2015 CERTIFIED

**TITAN BIOTECH LIMITED**

AN ISO 9001:2015 CERTIFIED COMPANY

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Ref. No.: TBL/QA/SS/MB/1215	STANDARD SPECIFICATION MALT EXTRACT(STD) TBL POWDER (Bacteriological Grade)	Rev. No. : 01
Issue No. : 02		Review Date : 01/02/2018
Issue Date : 01/03/2015		Product Code: 1215

PHYSICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	Appearance	Creamish yellow colour free flowing powder having sweet malty smell.
2.	Solubility (2% soln. at 25°C)	Completely soluble in distilled water, clear solution.
3.	Clarity (2% soln. at 121°C)	Absolute clear solution. No ppt.

CHEMICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	pH (2% Soln. at 25°C)	5.0 – 6.0
2.	Loss on drying (at 105°C)	NMT – 5.0%
3.	Total Carbohydrates	NLT – 70.0%
4.	Total Protein	NMT – 6.0%
5.	Total ash	NMT – 5.0%

MICROBIAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	Total viable count	NMT – 5,000 cfu/gm
2.	<i>Escherichia coli</i>	Negative
3.	<i>Salmonella spp.</i>	Negative
4.	<i>Staphylococcus aureus</i>	Negative
5.	Yeast & moulds	NMT – 50 cfu/gm

GROWTH PROMOTION TEST

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

S. No.	MICROORGANISMS	ATCC	INOCULUMS (CFU)	GROWTH	RECOVERY
1.	<i>Aspergillus brasiliensis</i>	16404	50-100	Good-Luxuriant	NLT- 70%
2.	<i>Candida albicans</i>	10231	50-100	Good -Luxuriant	NLT- 70%
3.	<i>Saccharomyces cerevisiae</i>	9763	50-100	Good -Luxuriant	NLT- 70%

Checked by

Approved by