



TITAN BIOTECH LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY



TITAN BIOTECH Corp. Office: 903-909, 9th Floor, Bigjos Tower, Netaji Subhash Place, Delhi-110034, INDIA

R.O. & Works:

Unit-I: A-902-A, RIICO Industrial Area, Phase-III, Bhiwadi, Alwar, Rajasthan-301019, INDIA

Unit-II: E-540, Industrial Area, Chopanki, Bhiwadi, Alwar, Rajasthan-301019, INDIA

C.I.N. – L74999RJ1992PLC013387

Customer Care Cell: +91-11-71239900, customercare@titanmedia.in

QUALITY ASSURANCE DEPARTMENT

CERTIFICATE OF ANALYSIS

Name of the Product : YEAST EXTRACT TBL POWDER
Batch No. : B1CC5IU01
Mfg. Date : Sep. - 2020
Best Before : Aug. - 2024

Product Code : 1225
A. R. No. : TB/B/200924-143
Date of Receipt : 24/09/2020
Date of Completion: 30/09/2020

PHYSICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Appearance	Light yellowish free flowing powder having characteristic yeast odor but not pungent smell.	Complies
2.	Solubility (2% Soln. at 25°C)	Completely soluble in distilled water, clear. Insoluble in alcohol	Complies
3.	Clarity (2% Soln. at 121°C)	Absolute clear solution. No ppt.	Complies

CHEMICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	pH (2% Soln. at 25°C)	6.5 – 7.5	6.88
2.	Loss on drying (at 105°C)	NMT – 6.0%	3.32%
3.	Total Nitrogen (DWB)	NLT – 10.0%	11.45%
4.	α -Amino Nitrogen	NLT – 4.5%	4.93%
5.	Total Ash	NMT – 15.0%	11.92%
6.	Chloride (as NaCl)	NMT – 1.0%	0.52%
7.	Indole Test	Positive	Complies

MICROBIAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Total viable count	NMT – 5,000 cfu/gm	110 cfu/gm
2.	<i>Escherichia coli</i>	Negative	Complies
3.	<i>Salmonella spp.</i>	Negative	Complies
4.	<i>Staphylococcus aureus</i>	Negative	Complies
5.	Yeast & Moulds	NMT – 50 cfu/gm	Nil



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GROWTH PROMOTION TEST

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

S. No.	MICROORGANISMS	ATCC	INOCULUMS (CFU)	GROWTH	RECOVERY	RESULT
1.	<i>Staphylococcus aureus</i>	25923	50-100	Good-Luxuriant	NLT- 70%	Complies
2.	<i>Escherichia coli</i>	25922	50-100	Good -Luxuriant	NLT- 70%	Complies
3.	<i>Pseudomonas aeruginosa</i>	27853	50-100	Good -Luxuriant	NLT- 70%	Complies
4.	<i>Bacillus subtilis</i>	6633	50-100	Good -Luxuriant	NLT- 70%	Complies
5.	<i>Enterococcus faecalis</i>	29212	50-100	Good- Luxuriant	NLT- 70%	Complies
6.	<i>Streptococcus pyogenes</i>	19615	50-100	Good -Luxuriant	NLT- 70%	Complies
7.	<i>Lactobacillus casei</i>	9595	50-100	Good -Luxuriant	NLT- 70%	Complies

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