



# TITAN BIOTECH LIMITED

AN ISO 9001:2015 CERTIFIED COMPANY



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](mailto:customercare@titanmedia.in)

## QUALITY ASSURANCE DEPARTMENT

### CERTIFICATE OF ANALYSIS

Name of the Product : MEAT EXTRACT POWDER  
Batch No. : B1CB7LU01  
Mfg. Date : Dec. - 2020  
Best Before : Nov. - 2024

Product Code : 1217  
A. R. No. : TB/B/201218-072  
Date of Receipt : 18/12/2020  
Date of Completion: 24/12/2020

#### PHYSICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Appearance	Brownish yellow color, free flowing powder having meat characteristic odour but not pungent smell.	Complies
2.	Solubility (2% soln. at 25°C)	Soluble in Water, Clear. Insoluble in alcohol.	Complies
3.	Clarity (2% Soln. at 121°C)	Clear solution. No ppt.	Complies

#### CHEMICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	pH (2% Soln. at 25°C)	6.5 – 7.5	7.16
2.	Loss on drying (at 105°C)	NMT – 6.0%	4.02%
3.	Total Nitrogen (DWB)	NLT – 12.0%	13.46%
4.	$\alpha$ -Amino Nitrogen	NLT – 2.5%	3.29%
5.	Total Ash	NMT – 15.0%	8.76%
6.	Chloride (as NaCl)	NMT – 6.0%	3.35%
7.	Indole Test	Positive	Complies

#### MICROBIAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Total viable count	NMT – 10,000 cfu/g	120 cfu/g
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 – 100 cfu/g	Nil



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### GROWTH PROMOTION TEST

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

S. No.	MICROORGANISMS	ATCC	GROWTH	RESULT
1.	<i>Staphylococcus aureus</i>	25923	Good-Luxuriant	Complies
2.	<i>Escherichia coli</i>	25922	Good-Luxuriant	Complies
3.	<i>Pseudomonas aeruginosa</i>	27853	Good-Luxuriant	Complies
4.	<i>Clostridium perfringens</i>	12924	Good-Luxuriant	Complies
5.	<i>Enterococcus faecalis</i>	29212	Good-Luxuriant	Complies
6.	<i>Streptococcus pyogenes</i>	19615	Good-Luxuriant	Complies

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