



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

QUALITY ASSURANCE DEPARTMENT

CERTIFICATE OF ANALYSIS

Name of the Product	: CASEIN ENZYMATIC HYDROLYSATE (TYPE-I)	Product Code	: 1512
Batch No.	: B1FB2BU01	A. R. No.	: TB/B/200215-049
Mfg. Date	: Feb. - 2020	Date of Receipt	: 15/02/2020
Best Before	: Jan. - 2024	Date of Completion:	21/02/2020

PHYSICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Appearance	Off white to creamish yellow colour, free flowing powder having characteristic odour but not pungent smell.	Complies
2.	Solubility (2% soln. at 25°C)	Soluble in distilled 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	6.81
2.	Loss on drying (at 105°C)	NMT – 5.0%	3.70%
3.	Total Nitrogen (DWB)	NLT – 12.5%	13.20%
4.	α -Amino Nitrogen	NLT – 3.0%	3.90%
5.	Total Ash	NMT – 13.0%	10.92%
6.	Chloride (as NaCl)	NMT – 5.0%	3.28%
7.	Indole Test	Positive	Complies

MICROBIAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Total viable count	NMT – 10,000 cfu/g	90 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/gm	Nil



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GROWTH PROMOTION TEST

Cultural Characteristic observed in 2% Casein Enzymatic Hydrolysate (Type-I) 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>Bacillus subtilis</i>	6633	Good-Luxuriant	Complies
5.	<i>Enterococcus faecalis</i>	29212	Good-Luxuriant	Complies
6.	<i>Streptococcus pyogenes</i>	19615	Good-Luxuriant	Complies