



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	: BILE SALT POWDER	Product Code	: 1207
Batch No.	: B1CA7DW01	A. R. No.	: TB/B/220414-080
Mfg. Date	: Apr - 2022	Date of Receipt	: 14/04/2022
Best Before	: Mar. - 2026	Date of Completion:	20/04/2022

PHYSICAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Appearance	Yellowish brown color free flowing powder having characteristic Bile odor but not pungent smell.	Complies
2.	Solubility (2% soln. at 25°C)	Soluble in distilled water and 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)	6.0 – 8.0	7.42
2.	Loss on drying (at 105°C)	NMT – 5.0%	3.04%

MICROBIAL PARAMETERS

S. No.	PRODUCT PARAMETERS	SPECIFICATION	RESULT
1.	Total viable count	NMT – 10,000 cfu/gm	240 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 – 100 cfu/gm	Nil



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GROWTH PROMOTION TEST

Cultural Characteristic observed in MacConkey agar with 0.5% Bile Salt Powder after incubation at 35-37°C for 18-24 hours.

S. No.	MICROORGANISMS	ATCC	GROWTH/Colour of Colony	RESULT
1.	<i>Escherichia coli</i>	25922	Good – Luxuriant/ bile ppt/pink	Complies
2.	<i>S.typhmuriium</i>	14028	Good – Luxuriant/colourless	Complies
3.	<i>Klebsiella pneumonia</i>	13883	Good – Luxuriant/ pink, mucoid	Complies
4.	<i>Staphylococcus aureus</i>	25923	None to poor	Complies