

TITAN BIOTECH LIMITED

A-902A, RIICO INDUSTRIAL AREA PHASE-III

BHIWADI- 301019, (Raj.)

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STANDARD TESTING SPECIFICATION

For

YEAST EXTRACT POWDER TYPE-1 (BACTERIOLOGICAL GRADE) CODE –1224

PHYSICAL PARAMETERS

S.L. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	Appearance	Yellow to light brownish free flowing powder having characteristic yeast odour but not pungent smell.
2.	Solubility (2% soln. at 25°C)	Soluble in distilled water, clear. Insoluble in alcohol
3.	Clarity (2% Soln. at 121 °C.)*	Clear solution. No ppt.

* -After Autoclave

CHEMICAL PARAMETERS

S.L. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	pH (2% Soln. at 25 °C)	5.5-6.5
2.	Loss on drying (at 105 °C)	NMT- 6.0%
3.	Total Nitrogen (DWB)	NLT- 10.0%
4.	α Amino Nitrogen	NLT- 3.5%
5.	Total Ash	NMT- 15.0%
6.	Chloride (as NaCl)	NMT- 5.0%
7.	Indole Test	Positive

MICROBIAL PARAMETERS

S.L. No.	PRODUCT PARAMETERS	SPECIFICATION
1.	Total viable count	NMT- 10,000cfu/gm
2.	<i>Escherichia coli</i>	Negative
3.	<i>Salmonella spp.</i>	Negative
4.	<i>Staphylococcus aureus</i>	Negative
5.	Yeast & molds	100/gm

GROWTH PROMOTION TEST

Cultural Characteristic observed in 2% Yeast Extract type-1 and 1.5% agar after incubation at 35-37°C for 18-24 hours.

S.L. No.	MICROORGANISMS	ATCC	GROWTH
1.	<i>Staphylococcus aureus</i>	25923	Good-Luxuriant
2.	<i>Escherichia coli</i>	25922	Good-Luxuriant
3.	<i>Pseudomonas aeruginosa</i>	27853	Good-Luxuriant
4.	<i>Bacillus subtilis</i>	6633	Good-Luxuriant
5.	<i>Enterococcus faecalis</i>	29212	Good-Luxuriant
6.	<i>Streptococcus pyogenes</i>	19615	Good-Luxuriant
7.	<i>Lactobacillus casei</i>	9595	Good-Luxuriant

Best Before : 36 Months

Std. Packing : 25kg Paper bag/HDPE drum

Storage : Hygroscopic by nature, store the material below 25 °C, protect from direct sunlight.

Checked by

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