



# 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 | : YEAST EXTRACT POWDER TYPE-1(Bacteriological Grade) | Product Code        | : 1224            |
| Batch No.           | : B1CC4CV01                                          | A. R. No.           | : TB/B/210324-076 |
| Mfg. Date           | : Mar. - 2021                                        | Date of Receipt     | : 24/03/2021      |
| Best Before         | : Feb. - 2025                                        | Date of Completion: | : 31/03/2021      |

### PHYSICAL PARAMETERS

| S. No. | PRODUCT PARAMETERS            | SPECIFICATION                                                                                         | RESULT   |
|--------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------|
| 1.     | Appearance                    | Yellow to light brownish free flowing powder having characteristic yeast 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)     | 5.5 – 6.5     | 5.87     |
| 2.     | Loss on drying (at 105°C) | NMT – 6.0%    | 4.09%    |
| 3.     | Total Nitrogen (DWB)      | NLT – 10.0%   | 11.57%   |
| 4.     | $\alpha$ -Amino Nitrogen  | NLT – 3.0%    | 3.95%    |
| 5.     | Total Ash                 | NMT – 15.0%   | 10.90%   |
| 6.     | Chloride (as NaCl)        | NMT – 5.0%    | 1.02%    |
| 7.     | Indole Test               | Positive      | Complies |

### MICROBIAL PARAMETERS

| S. No. | PRODUCT PARAMETERS           | SPECIFICATION       | RESULT    |
|--------|------------------------------|---------------------|-----------|
| 1.     | Total viable count           | NMT – 10,000 cfu/gm | 120cfu/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 2%Yeast Extract Powder Type-I( Bacteriological Grade) 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 |
| 7.     | <i>Lactobacillus casei</i>    | 9595  | Good - Luxuriant | Complies |

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