



# 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 : MALT EXTRACTS POWDER  
Batch No. : B1CB4JU01  
Mfg. Date : Oct. - 2020  
Best Before : Sep. - 2024

Product code : 1214  
A. R. No. : TB/B/201024-090  
Date of Receipt : 24/10/2020  
Date of Completion: 30/10/2020

#### PHYSICAL PARAMETERS

| S. No. | PRODUCT PARAMETERS            | SPECIFICATION                                                        | RESULT   |
|--------|-------------------------------|----------------------------------------------------------------------|----------|
| 1.     | Appearance                    | Creamish yellow colour free flowing powder having sweet malty smell. | Complies |
| 2.     | Solubility (2% soln. at 25°C) | Soluble in distilled water, clear solution.                          | 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)     | 5.0 – 6.0     | 5.75   |
| 2.     | Loss on drying (at 105°C) | NMT – 5.0%    | 3.15%  |
| 3.     | Total Carbohydrates       | NLT – 70.0%   | 70.47% |
| 4.     | Total Protein             | NMT – 6.0%    | 4.47%  |
| 5.     | Total ash                 | NMT – 5.0%    | 3.82%  |

#### MICROBIAL PARAMETERS

| S. No. | PRODUCT PARAMETERS           | SPECIFICATION       | RESULT     |
|--------|------------------------------|---------------------|------------|
| 1.     | Total viable count           | NMT – 10,000 cfu/gm | 310 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 2% Malt Extract Powder and 1.5% agar after incubation at 35-37°C for 18-24 hours.

| S. No. | MICROORGANISMS                  | ATCC  | GROWTH         | RESULT   |
|--------|---------------------------------|-------|----------------|----------|
| 1.     | <i>Aspergillus brasiliensis</i> | 16404 | Good-Luxuriant | Complies |
| 2.     | <i>Candida albicans</i>         | 10231 | Good-Luxuriant | Complies |
| 3.     | <i>Saccharomyces cerevisiae</i> | 9763  | Good-Luxuriant | Complies |