

Retesting Date:



## **Certificate of Analysis (COA)**

Product Name: Ultimine™ Koji Fermented Mineral-Koji Zinc Code 410512

Description: Inactivated and dried Aspergillus oryzae powder with no less than 5.5% zinc

Batch number: 210902

Manufacturing date: 2021.09.09
Date of Acceptance: 2021.09.27

2024.09.08

Specification Results Ref. of Methods Organoleptic Quality Visual **Appearance** Powder Conform Color Light gray to light brown Conform Visual Characteristic Conform Flavor Sensory **Analytical Quality** <sup>1</sup> Identity DNA Conform True ID by Purity® IQ ICP-OES GB 5009.268-2016 5.5%-6.5% 5.6 % Zinc content, as is 2<sup>nd</sup> mod. by Eurofins, China Loss on drying < 10% 4.5% GB 5009.3-2016 Particle size > 95% 40 mesh (420µm) Conform ASTM standard ASTM D1895B mod. **Bulk density** 0.3-0.7 g/mL Conform Total heavy metals Conform < 10 ppm Plumbum Conform < 3 ppm ICP-MS BS EN ISO 17294-2 Arsenic < 1 ppm Conform 2016 by Eurofins, China Cadmium < 1 ppm Conform Mercury Conform < 0.1 ppm <sup>2</sup> Aflatoxin B1 Conform USP 561 mod. By Eurofins, < 5 ppb <sup>2</sup> Aflatoxin B1+B2+G1+G2 < 10 ppb Conform <sup>2</sup> Pesticides residues Comply with USP and Conform Ph.Eur. 2.8.13 by Eurofins, Eur. Reg 396/2005 Germany Microbiological Quality Total plate count < 10,000 cfu/g Conform ISO4833-1:2013 < 100 cfu/g Yeasts and Molds Conform ISO21527-2:2008 Salmonella ISO6579:2017 Negative/25 g Negative E.coli Negative/g Negative ISO7251:2005 <sup>2</sup> Staphylococcus aureus ISO 6888-1:2003 by Eurofins, Negative/25 g Negative

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<sup>1.</sup> A TRU-ID™ certificate is provided by Purity™IQ of Canada by testing DNA of one mother culture of production lots. The test is conducted every two years on the same batch of the mother culture or at the time using a new batch of mother culture.

<sup>2.</sup> Annual testing of one random production batch by Eurofins laboratories.