



XINCHANG NHU VITAMINS COMPANY LTD.

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Certificate of Analysis

Date: Oct.18,2023

Product Name	:	Vitamin D ₃ 100 CWS/A
Brand	:	NHU™ / COVITAS™
Product Code	:	SP03-04
Batch No.	:	022309C004
Total Quantity	:	750KGS
Manufacture Date	:	Sep.16,2023
Certificate Date	:	Sep.22,2023
Expiration Date	:	Sep.15,2025

Results of Analysis

Items	Standards	Results
Appearance	White to yellowish-white free-flowing microcapsule	Qualified
Identification	A. Infrared absorption B. Ultraviolet-Visible spectroscopy. C. The retention time of the major peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.	Qualified
Assay	$\geq 100,000$ IU/g	106,000 IU/g
Loss on Drying	$\leq 5.0\%$	4.4%
Solubility	Dispersible in cool water forming a milky emulsion	Qualified
Sieve Analysis	100% Through Sieve No.20 (US)	100%
	$\geq 90\%$ Through Sieve No.40 (US)	96.5%
	$\leq 15\%$ Through Sieve No.100 (US)	0.7%
*Heavy Metal	$\leq 10\text{mg/kg}$	$< 10\text{mg/kg}$
*Arsenic	$\leq 1.0\text{mg/kg}$	$< 1.0\text{mg/kg}$
*Pb	$\leq 0.5\text{mg/kg}$	$< 0.5\text{mg/kg}$
*Cd	$\leq 0.5\text{mg/kg}$	$< 0.5\text{mg/kg}$
Microbiological Spec.		
Total Plate Count	$\leq 1000\text{CFU/g}$	30CFU/g
Mould & Yeast	$\leq 100\text{CFU/g}$	$< 10\text{CFU/g}$
Coliforms	$< 0.3\text{MPN/g}$	$< 0.3\text{MPN/g}$
Salmonella	Negative (In 25g)	Negative

*- Test once every six months.

Conclusion: Conform to the standard USP-NF 2022.

Reporter: 寿飞飞

Reviewer: 高志松

Approver: 章黎明

QC Manager: Yiming Zhang

