



大连汉德姆精细化学品有限公司

DALIAN HANDOM CHEMICALS CO.,LTD.

Certificate of Analysis

Product Name: Vitamin D₃ 100 CWD

Manufacturing Date: Dec 28th, 2023

Quantity: 3020kg

Standard: USP

Batch No.: HDC2023122801

Retest Date: Dec 27th, 2025

Packing: 25kg/Carton

Report Date: Jan 3rd, 2024

Test Items	Specifications	Test Results
Appearance	Off-white to yellowish free-flowing pellets or powder	Yellowish free-flowing pellets
Dispersibility	Cold water disperse	Cold water disperse
Particle Size	100% pass through 30 mesh sieve	100%
	≥90% pass through 40 mesh sieve	90.5%
	≤15% pass through 100 mesh sieve	4%
Loss on Drying	Not more than 5.0%	3.4%
Vitamin D ₃	Not less than 100,000 IU/g	107,000 IU/g
Total Heavy Metals	Not more than 10 ppm	< 10 ppm
Lead(Pb)	Not more than 2 ppm	<0.05 ppm
Arsenic(As)	Not more than 2 ppm	<0.01 ppm
Cadmium(Cd)	Not more than 1 ppm	<1.0 ppm
Mercury(Hg)	Not more than 0.1 ppm	<0.1 ppm
Total Plate Count	Not more than 1000 CFU/g	15 CFU/g
Yeasts & Moulds	Not more than 100 CFU/g	< 10 CFU/g
Coliforms	Less than 3 MPN/g	<3 MPN/g
Salmonella	Negative/25g	Conforms
Escherichia coli	Negative/g	Conforms

Conclusion: The testing results of this batch are complied with USP monographs.