



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 D<sub>3</sub>(Cholecalciferol) Oil

**Manufacturing Date:** Jul 25<sup>th</sup>, 2024

**Quantity:** 410.00kg

**Standard:** USP

**Batch No.:** HDC20240725

**Retest Date:** Jul 24<sup>th</sup>, 2026

**Packing:** 5kg/Pot

**Report Date:** Jul 29<sup>th</sup>, 2024

Test Items	Specifications	Test Results
Appearance	Clear pale yellow to yellow oily liquid	Conforms
Identification	The retention time of the main peak of the test solution should be consistent with the retention time of the main peak of the reference solution (HPLC).	Conforms
Assay	Not less than 1,000,000 IU/g	1,065,000 IU/g
Acid Value (as KOH)	Not more than 2.0 mg/g	0.15 mg/g
Peroxide Value	Not more than 7.5 mmol/kg	<7.5 mmol/kg
Heavy Metals	Not more than 10.0 ppm	<10.0 ppm
Lead (Pb)	Not more than 2.0 ppm	<0.05 ppm
Arsenic (As)	Not more than 2.0 mg/kg	<0.01 mg/kg
Cadmium (Cd)	Not more than 1.0 mg/kg	<1.0 mg/kg
Mercury (Hg)	Not more than 0.1 mg/kg	<0.1 mg/kg
Total Aerobic Microbial Count	Not more than 1000 CFU/g	<10 CFU/g
Total Yeasts & Moulds Count	Not more than 100 CFU/g	<10 CFU/g
Enterobacterial	Not more than 10 MPN/g	<10 MPN/g
Salmonella	Negative/25g	Not detected
Escherichia coli	Negative/10g	Not detected
Staphylococcus aureus	Negative/10g	Not detected
Pseudomonas aeruginosa	Negative/10g	Not detected

**Conclusion:** The testing results of this batch are complied with the Standard of USP.