



Certificate of Analysis

Product Name **Vegan Vitamin D₃ Oil (Cholecalciferol 1M IU/g Min.)**
Product Code VVDO00302
Plant Source Cholecalciferol extracts from Lichen
Country of Origin This product is made in China.
Description Plant-source Cholecalciferol 1,000,000IU/g presented in an oil format (MCT) with added Natural Vitamin E as an antioxidant.
Ingredients: Mono and diglycerides of fatty acids, Antioxidant (Natural Vitamin E), Cholecalciferol.
Quantity: 500kg
Batch No.: HDC20220104
MFG.Date: Jan 4th, 2022 Retest Date: Jan 3rd, 2024

| Parameter | Standard | Result | Method |
|------------------------------|---------------------------------|------------------|---------------|
| Appearance | Clear pale yellow to yellow oil | Clear yellow oil | Organoleptic |
| Identification | Meets USP requirements | Conform | USP43 |
| Vitamin D3 (Cholecalciferol) | NLT 1,000,000 IU/g | 1,045,000 IU/g | EN 12821:2009 |
| Acid value | NMT 2.0 mg/kg KOH | 0.03 mg/kg KOH | AOCS Cd 3d-63 |
| Peroxide value | NMT 7.5 mmol/kg | 1.4 mmol/kg | AOCS Cd 8b-90 |
| Moisture and Volatiles | NMT 1.0 % | <1.0 % | AOCS Ca 2d-25 |
| Lead | NMT 1.0 ppm | < 1.0 ppm | EN ISO17294 |
| Arsenic | NMT 2.0 ppm | < 2.0 ppm | EN ISO17294 |
| Cadmium | NMT 1.0 ppm | < 1.0 ppm | EN ISO17294 |
| Mercury | NMT 0.1 ppm | < 0.1 ppm | BS EN 13806 |
| Total Plate Count | NMT 1,000 CFU/g | <10CFU/g | ISO 4833 |
| Molds & Yeasts | NMT 100 CFU/g | <10CFU/g | ISO 21527 |
| <i>E.coli</i> | Absent/g | Absent | ISO 7251 |
| <i>Salmonella</i> | Absent/25 | Absent | ISO 6579 |
| <i>Staphylococcus aureus</i> | Absent/g | Absent | ISO 6888-3 |

General Statement

Vegan 100% vegan source.
GMO This oil does not contain any genetically modified components.
BSE/TSE It is produced based on vegetable raw material, therefore vegan and thereby no risk of BSE/TSE.
Gluten Free from gluten.
Non-irradiation Not irradiated at any point during the entire manufacturing process.
Allergen Free from allergens.

Package, Shelf Life and Storage

Package This oil is packaged in net 1kg bottle.
Shelf Life The shelf life is 24 months if unopened in the original standard package.
Handing & Storage This oil should be stored in a cool and dry place, protected from light.

Conclusion: Complied with In-house Standard.

Quality Manager: Cherry Lau

Date: Jan 5th, 2022

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