

Certificate of Analysis

Product Name: Vitamin D3 100,000 iu/g Powder

Batch reference: 20261603
Product Code: V1060
Date of Manufacture: 16.03.2026
Expiry Date: 15.09.2028
Country of Manufacture: UK
Country of Supply: UK

Description

Microencapsulated powder of Vitamin D3 to a concentration of 100,000iu/g. It consists of plant based food grade carrier materials and Vitamin D3 (cholecalciferol) from a veg source (Lichen).

Specifications

Physical

Parameter	Specification	Result	Method
Appearance	White to pale yellow powder	Conforms	Visual
Particle Size	NLT 90% through a #40 mesh	Conforms	USP 786
Bulk Density	0.4 - 0.7g/ml	0.46 g/ml	USP 616
Loss on Drying (USA requirement)*	NMT 5.0%	Conforms	USP 731

Analytical

Parameter	Specification	Result	Method
Assay	90,000 – 110,000iu/g	105,010iu/g	USP
Heavy Metals	NMT 10ppm	<10ppm	EN ISO 17294
Arsenic	NMT 0.2ppm	<0.1ppm	ICP
Lead	NMT 0.2ppm	<0.1ppm	ICP
Cadmium	NMT 0.2ppm	<0.2ppm	ICP
Mercury	NMT 0.1ppm	<0.1ppm	ICP

Microbiological

Parameter	Specification	Result	Method
Total Plate Count	NMT 1000cfu/g	Conforms	ISO 4833
Yeast & moulds	NMT 100cfu/g	Conforms	ISO 7954
Coliform	NMT 10cfu/g	Conforms	ISO 4832
E. Coli	Negative per g	Conforms	ISO 16649
Salmonella	Negative per 25g	Conforms	ISO 6579
Staphylococcus Aureus	Negative per g	Conforms	ISO 6888

Stability and storage

V1060 Vitashine 100,000iu/g powder is sensitive to air, heat, and light. The product may be stored for 30 months from the date of manufacture in the unopened original container. The expiry date is printed on the label. Recommended storage temperature < 25°C. Once opened, use contents quickly and store below 4°C in an airtight container. The product may be transported at ambient conditions in the unopened original container.

Uses

Health supplements, Nutraceuticals, Food fortification source of Vitamin D3.

Not for Medicinal Use.

Safety

This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the ESB Developments Limited MSDS sheet.

Legal notice

The information given in this publication is based on our current knowledge and experience and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations and observe all third-party rights.

Manufactured by: ESB Developments Limited
Creation House
Gauntley Street
Nottingham
United Kingdom
Emergency Telephone: +44 115 970 8338
E-mail address: info@esbdevelopments.co.uk

Signed. **Mark Broughton.....** **Date: 30th March 2026**

[Signed Electronically, does not require signature]