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Certificate of Analysis

Catalogue Number	01529
Product	Calciferol
Lot Number	002878-180502
	Vitamin D ₂
CAS Number	50-14-6
Molecular Formula	C ₂₈ H ₄₄ O
Molecular Weight	396.7

Appearance	White to off-white powder
Appearance of Solution	Dissolve about 0.5mg of Vitamin D ₂ into 5ml chloroform, add 0.3ml acetic anhydride and 0.1ml sulfuric acid, shake and mix vigorously. The mixture is initially produced bright red color, and then rapidly changes violet and finally blue to green.
Solubility	Dissolve 10mg of vitamin D ₂ into 2ml of 90% ethanol, add 2ml solution of digitalis saponin and incubate for 18hrs. No precipitation or cloud should be observed. Freely soluble in alcohol
Odor	Odorless
Melting Point	114.9 - 115.5 °C
Optical Rotation	[α] _D ²⁰ = + 104.50°
Infrared Spectrum	Conforms to structure
Reducing Substances	< 20 ppm
Organic Volatile Impurities	Conforms to USP
Assay	98.77%
Grade	USP
Storage	Store at 0-8 °C
Additional Information	Ergosterol: none

Certificate of Analysis

Catalog Number: 01529

Lot Number: 002878-180502

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager