CERTIFICATE OF ANALYSIS

Product Description CHOLECALCIFEROL

USP GRADE

 $(3\beta,5Z,7E)$ -9,10-Secocholesta-5,7,10(1()-TRIEN-3-OL, VITAMIN D₃

Product Number V883

Lot Number 12J0883006

Storage Temperature 2-6° C
Molecular Weight 384.65
Formula CAS Number 67-97-0

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in DMSO @ 1 mg/mL	Passes
Physical Appearance		
Color*	RM-1 to RM-4, RM-31 or	RM-31 White
	2143-70 to 2149-70	
Texture	Fine to Crystalline powder, may	
	have needle-like crystals	Crystalline Powder
Solution Appearance		
Clarity	Clear	Clear
Color	Colorless	Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
Purity	Minimum 98.0%	100%

^{*} Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color PreviewTM).

Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Blueberry	Passes
	Royal Frost Birch	Passes

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

Phyto Technology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Recommended Shelf Life Date: September 2017

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PhytoTechnology Laboratories®

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