



CERTIFICATE OF ANALYSIS

PRODUCT: **Calcitriol**
[1 α ,25-dihydroxyvitamin D₃; 1 α , 25-dihydroxycholecalciferol]
C₂₇H₄₄O₃, M.W. 416.7, CAS# [32222-06-3]

PRODUCT NUMBER: C-1026

LOT NUMBER: A9531

APPEARANCE: White solid

SOLUBILITY: Slightly soluble in methanol, 100% ethanol, ethyl acetate or tetrahydrofuran.

IDENTITY DETERMINED BY IR: Confirms

ASSAY (HPLC):	<u>SPECIFICATIONS:</u> 97.0-103.0%	<u>RESULTS:</u> 102.3%
RELATED SUBSTANCES (HPLC):	<u>SPECIFICATIONS:</u> ≤ 1.0%	<u>RESULTS:</u> 0.18%

RESIDUAL SOLVENTS (GC):	Dichloromethane ≤ 600 ppm	152 ppm
	Methanol ≤ 3,000 ppm	Not detected
	Methyl formate ≤ 5,000 ppm	1874 ppm

PRODUCT DESCRIPTION: Osteotropic hormone that up-regulates RANKL level and down regulates OPG level. Biologically active form of vitamin D3 in intestinal calcium transport and bone calcium resorption.

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STORAGE & HANDLING:

Storage at -20°C. **PROTECT FROM LIGHT!**
WARNING: VERY TOXIC, MAY BE TERATOGENIC!

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DH