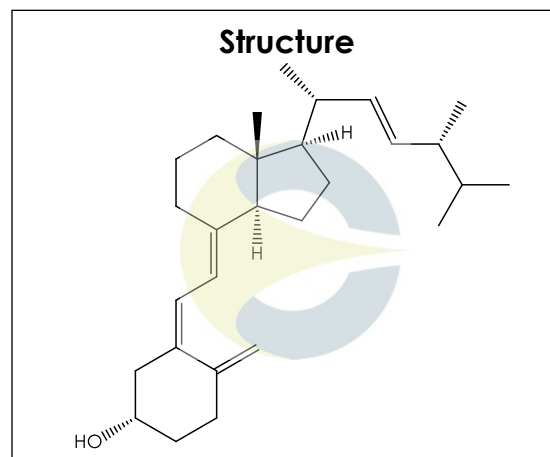


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PRODUCT NAME	Vitamin D2 (Ergocalciferol)
PART NUMBER	00022751
STANDARD TYPE	Primary (P)
LOT NUMBER	00022751-139
REPORT NUMBER	CDXA-RSS-8723-00
SAMPLE NUMBER	CDXP-19-00675
DATE OF SAMPLE	11/15/2019
DATE OF REPORT	12/17/2019



CHEMICAL NAMES	(3 β ,5Z,7E,22E)-9,10-Secoergosta-5,7,10,(19),22-tetraen-3-ol; (+)-Vitamin D2; Calciferol; Ercalciol; Oleovitamin D2; Ostelin; Radiostol; Radsterin; Sterogyl; Viosterol
CHEMICAL FORMULA	C ₂₈ H ₄₄ O
MOLECULAR WEIGHT (MW)	396.65
CHEMICAL FAMILY	Vitamins
CAS NUMBER	[50-14-6]
EC#(EINECS)	200-014-9
RTECS	KE1050000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	98.6%
HPLC	0.700.10.2.METH22	NA	98.6%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	TM6740 V1	NA	Acetone < 0.1%
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 98.6% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 98.6% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	11/2024 under the above conditions.

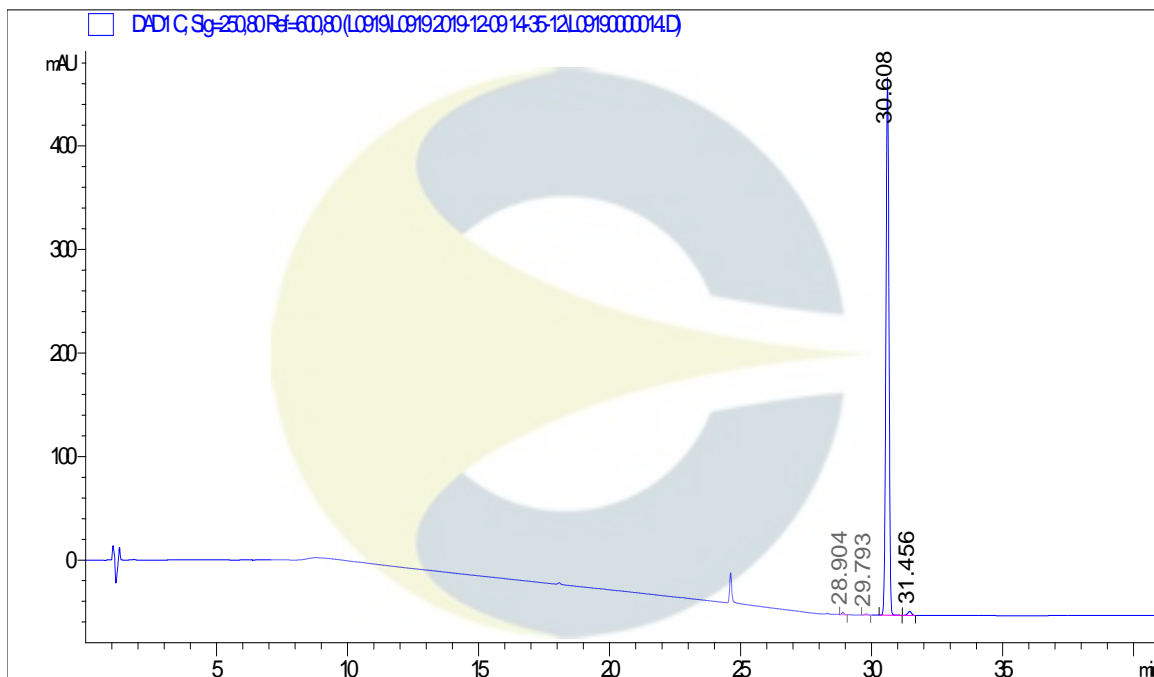
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ANALYTICAL CONDITIONS

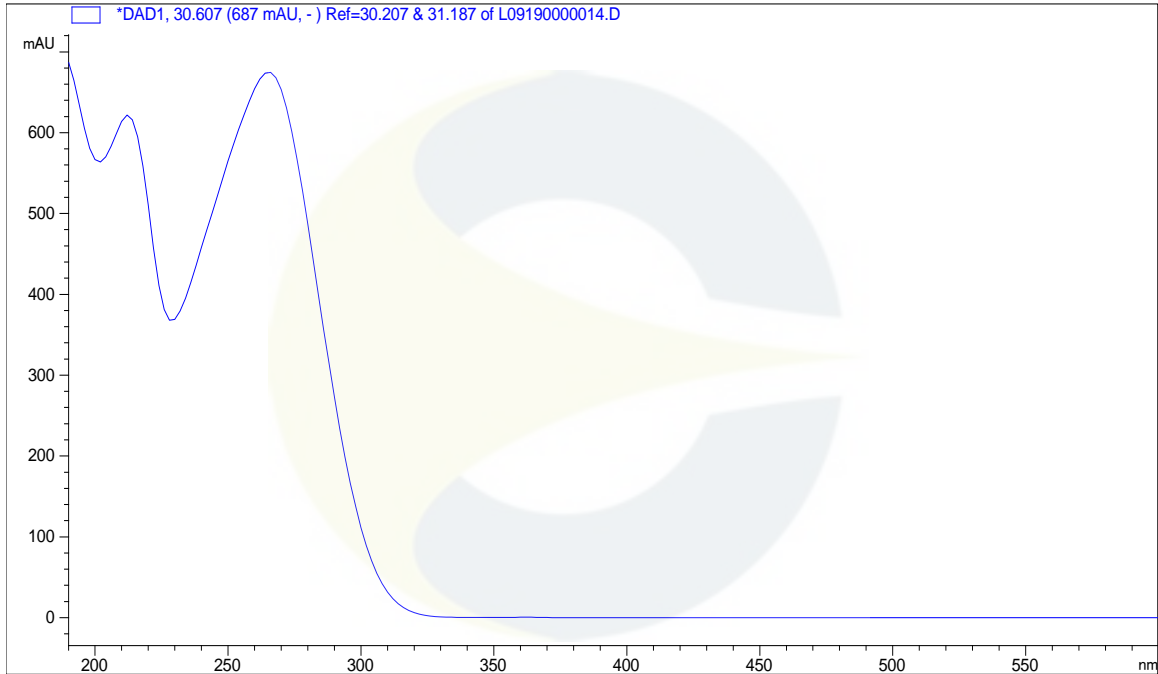
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.8 µL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	250 ± 40 nm

HPLC CHROMATOGRAM OF VITAMIN D2 (ERGOCALCIFEROL) (CDXP-19-00675)


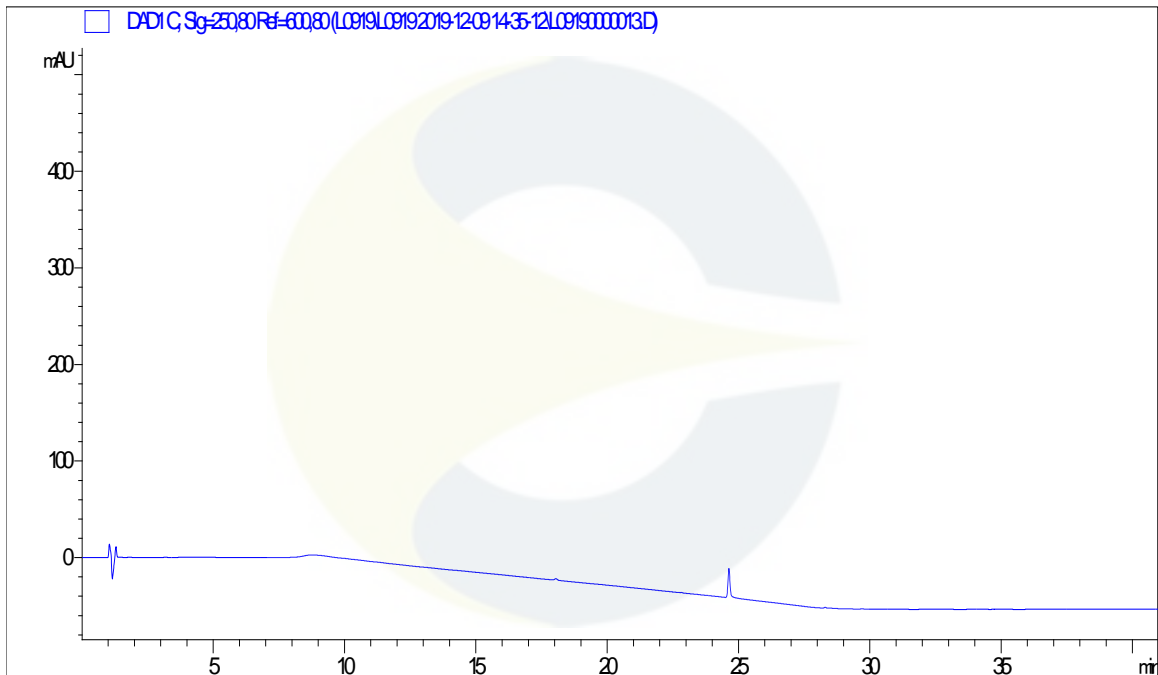
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UV SPECTRUM AT RT = 30.6 MINUTES

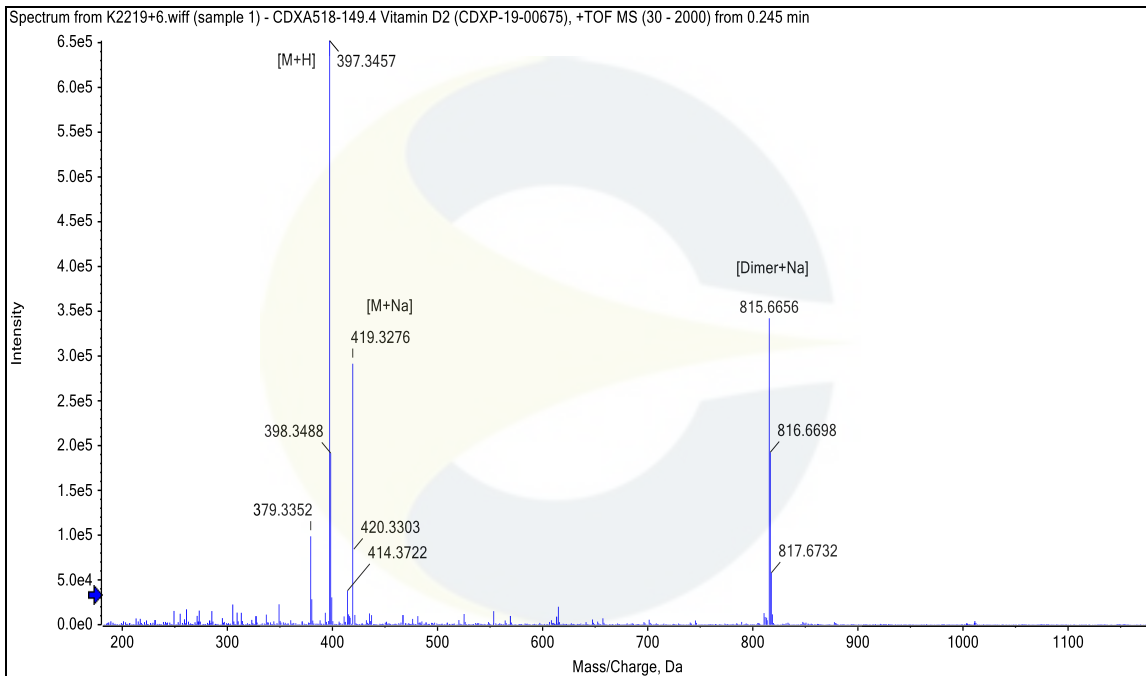


HPLC CHROMATOGRAM OF DILUENT BLANK

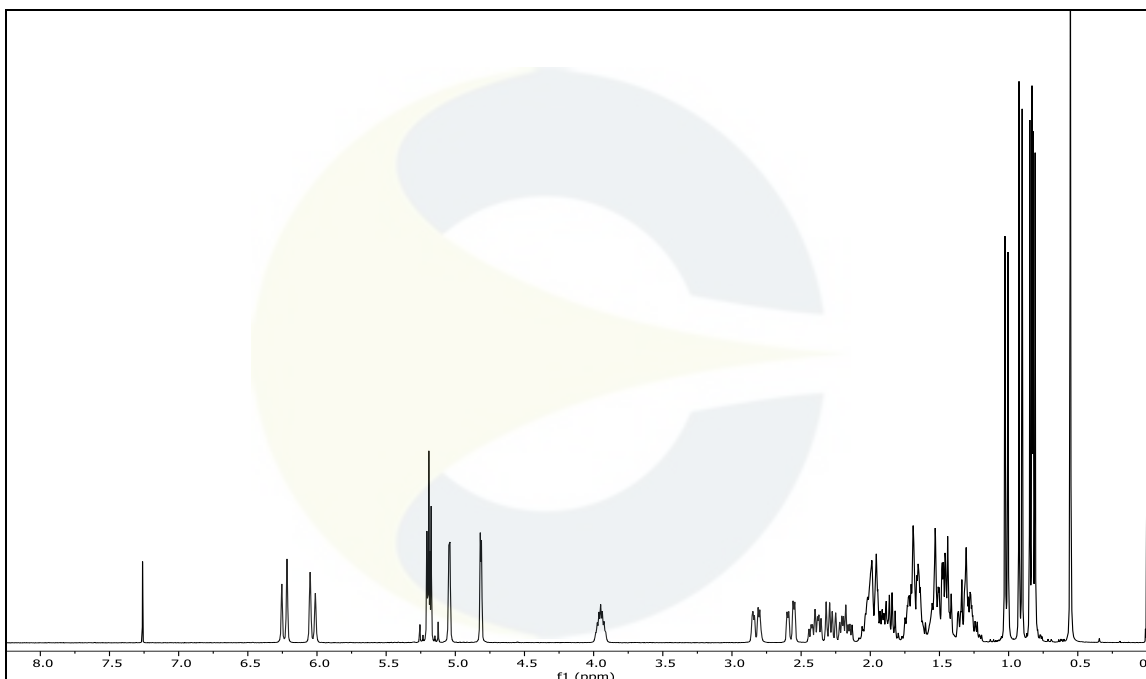


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MASS SPECTRUM OF VITAMIN D2 (ERGOCALCIFEROL) (CDXP-19-00675)

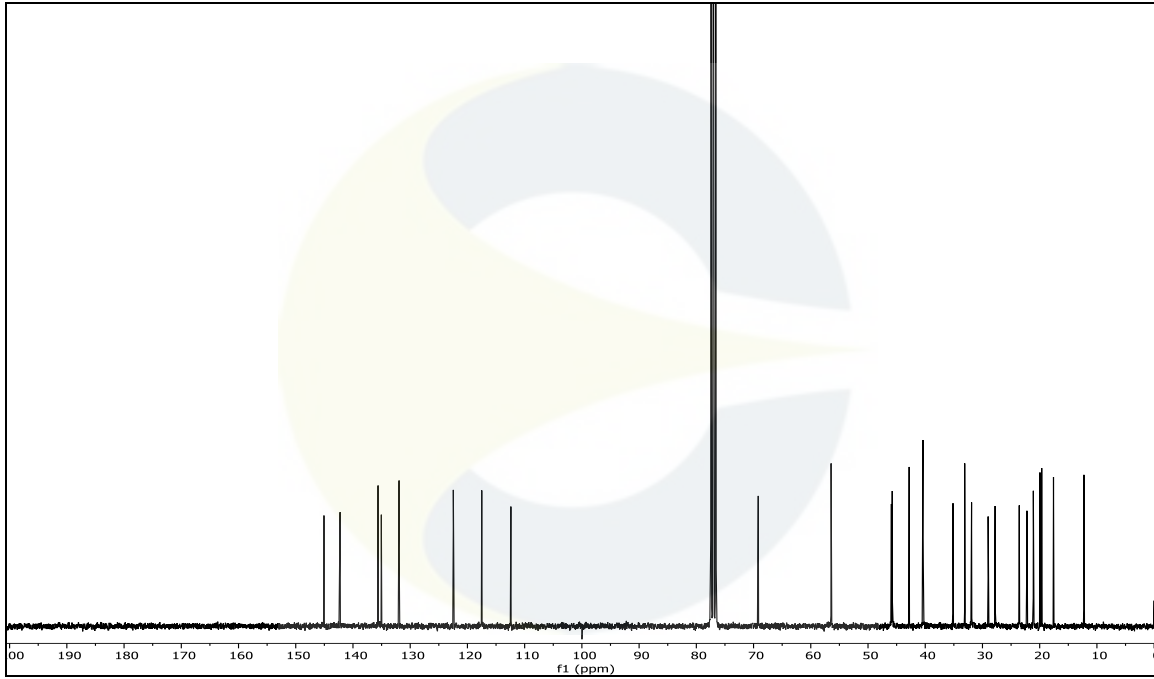


¹H-NMR SPECTRUM OF VITAMIN D2 (ERGOCALCIFEROL) (CDXP-19-00675) IN CDCl₃



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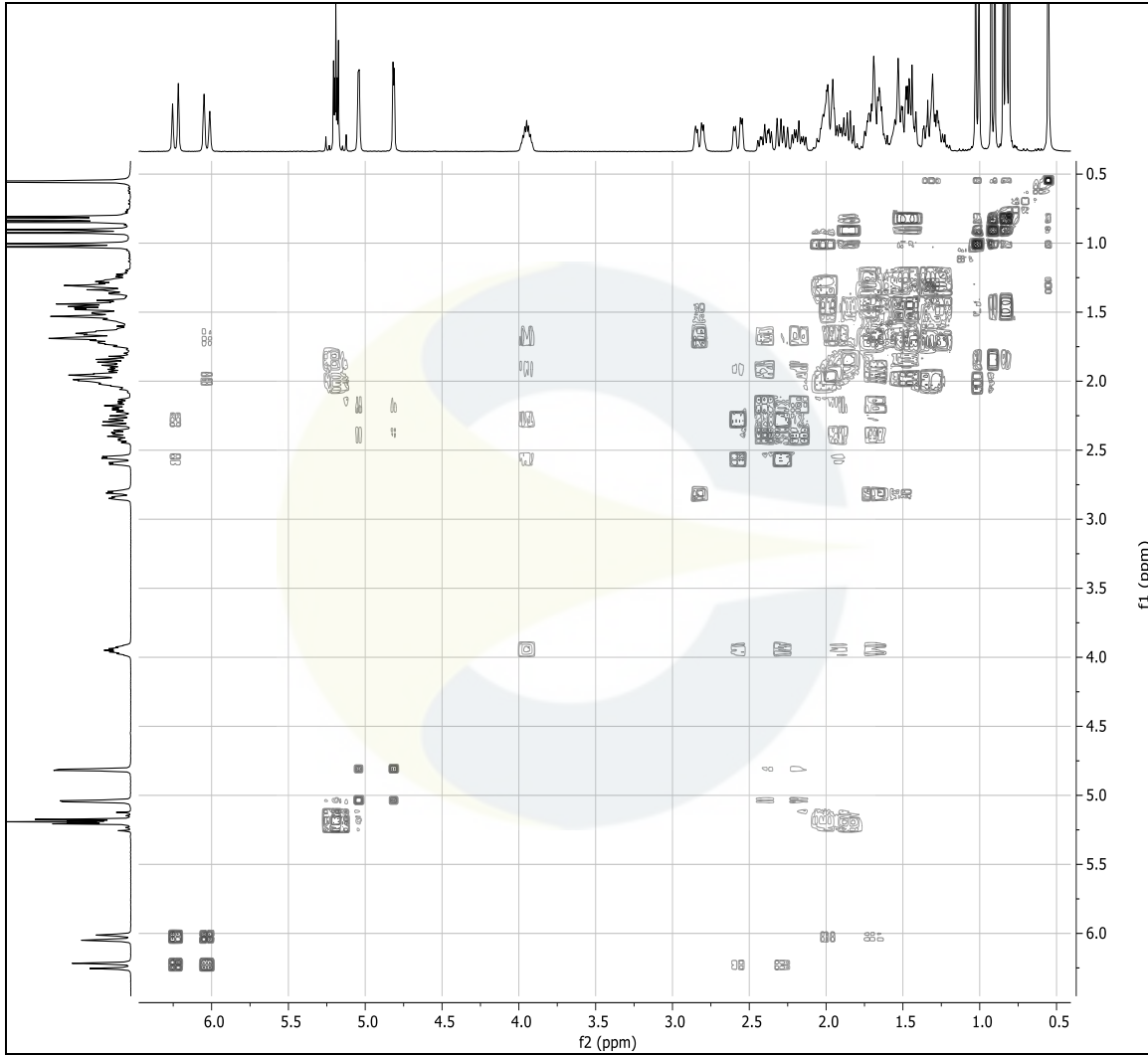
¹³C-NMR SPECTRUM VITAMIN D2 (ERGOCALCIFEROL) (CDXP-19-00675) IN CDCl₃



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COSY-NMR SPECTRUM OF VITAMIN D2 (ERGOCALCIFEROL) (CDXP-19-00675) IN CDCl₃



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/17/2019	New report

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