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PRODUCT NAME	Vitamin D3 (Cholecalciferol)	Structure	
PART NUMBER	00022774	QH	
STANDARD TYPE	Primary (P)		
LOT NUMBER	00022774-454		
REPORT NUMBER	CDXA-RSS-6774-01		
SAMPLE NUMBER	CDXA-15-007285		
DATE OF SAMPLE	09/10/2015		
DATE OF RE-EVALUATION	02/11/2020		
DATE OF REPORT	02/25/2020		
CHEMICAL NAMES	(3β,5Z,7E)-9,10-Secocholesta-5,7,10(19) Delsterol; Deparal; Quintox; Ricketon; V		
CHEMICAL FORMULA	C ₂₇ H ₄₄ O		
MOLECULAR WEIGHT (MW)	384.64		
CHEMICAL FAMILY	Vitamins		
CAS NUMBER	[67-97-0]		
EC#(EINECS)	200-673-2		
RTECS	VS2900000		
NALYTICAL RESULTS			

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT	
Adjusted Purity	NA	NA	99.6%	
HPLC	0.700.10.2.METH22	NA	99.6%	
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure	
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms	
Residual Solvent	99.1-CD-8.0-000115	NA	ND	
Water	Water 0.700.12.37		ND	
Appearance	NA	NA	White powder	

ADJUSTED PURITY: 99.6% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.6% HPLC

STORAGE CONDITIONS

STORAGE +4 °C in a dry place.

EXPIRATION DATE 02/2025 under the above conditions.

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10005 MUIRLANDS BLVD., SUITE G, IRVINE, CA 92618 | T: +1 949-419-0288 | F: +1 949-419-0294 | WWW.CHROMADEX.COM LABORATORY ADDRESS: 1751 S. FORDHAM ST., SUITE 350, LONGMONT, CO 80503 India Contact: Life Technologies (India) Pvt. Ltd. 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com





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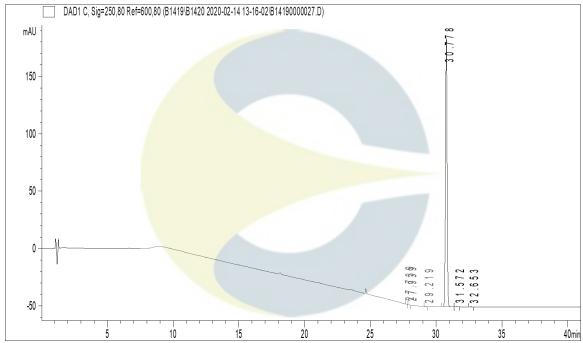
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD) CONNECTED TO DIONEX CORONA VEO CHARGED AEROSOL DETECTOR (CAD); 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.	0° C	
FLOW RATE	0.4 mL/minute	
INJECTION VOL.	0.4 μL	
INJECTION CONC.	1.0 mg/mL in Methanol	
DETECTION	250 ± 40 nm	

HPLC CHROMATOGRAM OF VITAMIN D3 (CHOLECALCIFEROL) (CDXA-15-007285)





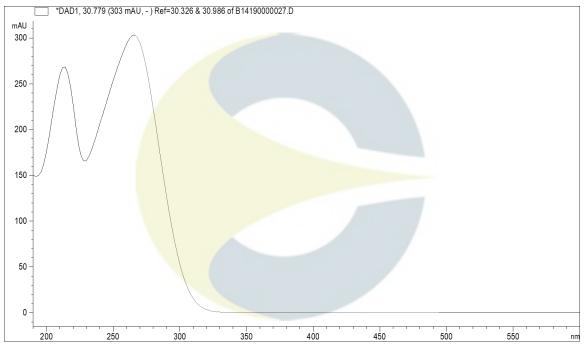


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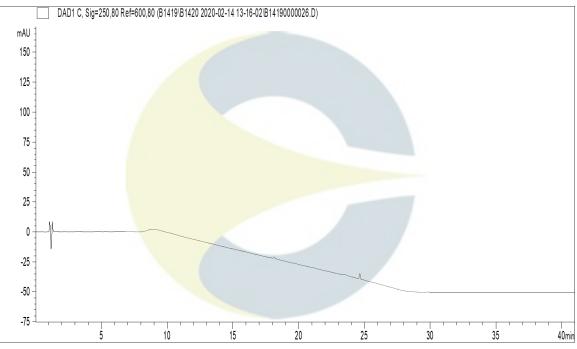
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UV SPECTRUM AT RT = 30.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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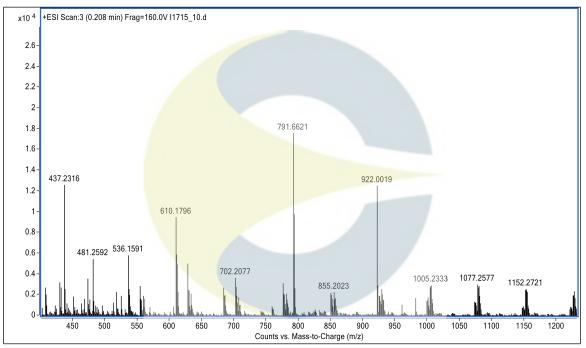


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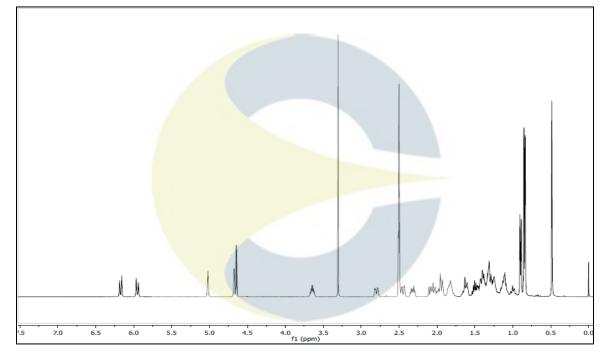
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MASS SPECTRUM OF VITAMIN D3 (CHOLECALCIFEROL) (CDXA-15-007285)



¹H-NMR SPECTRUM OF VITAMIN D3 (CHOLECALCIFEROL) (CDXA-15-007285) IN DMSO-d₆





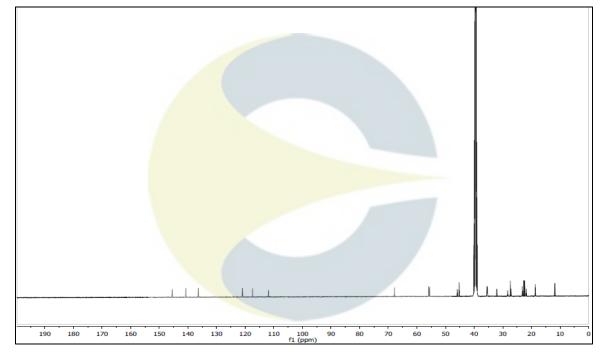


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¹³C-NMR SPECTRUM OF VITAMIN D3 (CHOLECALCIFEROL) (CDXA-15-007285) IN DMSO-d₆





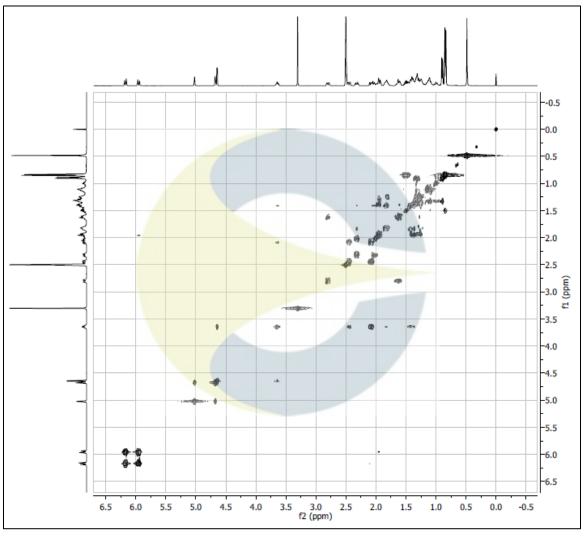


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COSY-NMR SPECTRUM OF VITAMIN D3 (CHOLECALCIFEROL) (CDXA-15-007285) IN DMSO-d6



REVISION HISTORY

<u>Revision History</u>	Date of Revision	Document/Changes
00	10/08/2015	New report
01	02/25/2020	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical conditions, chromatograms and results. Removed melting point.