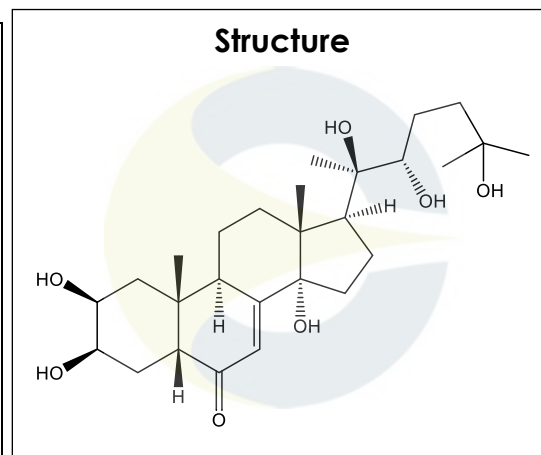


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PRODUCT NAME	Beta-Ecdysone
PART NUMBER	00005015
STANDARD TYPE	Primary (P)
LOT NUMBER	00005015-601
REPORT NUMBER	CDXA-RSS-9222-00
SAMPLE NUMBER	CDXP-20-00800
DATE OF SAMPLE	11/04/2020
DATE OF REPORT	12/10/2020



CHEMICAL NAMES	2 β ,3 β ,14,20,22,25-Hexahydroxy-5 β -cholest-7-en-6-one; Ecdysterone; Crustecdysone; Commisterone; β -Ecdysone; Isoinokosterone; Viticosterone; Polypodine A; 20-Hydroxy- α -ecdysone
CHEMICAL FORMULA	C ₂₇ H ₄₄ O ₇
MOLECULAR WEIGHT (MW)	480.63
CHEMICAL FAMILY	Steroids
CAS NUMBER	[5289-74-7]
EC#(EINECS)	811-097-1
RTECS	FZ8060000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	85.3%
HPLC	0.700.10.2.METH22	≥ 90%	95.4%
NMR	0.700.12.4	Conforms to structure	Conforms to structure
Mass Spectrum	0.700.12.27	Conforms	Conforms
Residual Solvent*	USP <467>	NA	Methanol – 16,000 ppm
Water	0.700.12.37	NA	9.0%
Appearance	NA	NA	White powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 85.3% IS BASED ON (100 - 1.6 SOLVENTS - 9.0 WATER) X 95.4% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	11/2025 under the above conditions.

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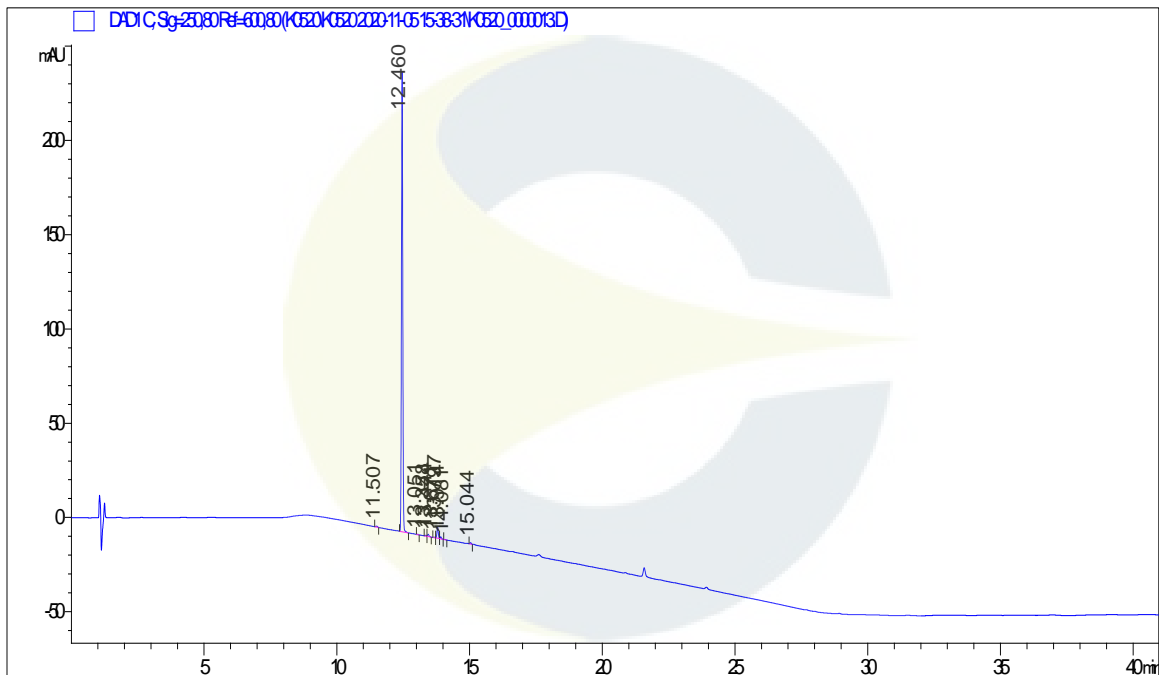
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ANALYTICAL CONDITIONS

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, then decreasing to 5% B over 1 minute.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.4 µL
INJECTION CONC.	1.2 mg/mL in Methanol
DETECTION	250 ± 40 nm

HPLC CHROMATOGRAM OF BETA-ECDYSONE (CDXP-20-00800)

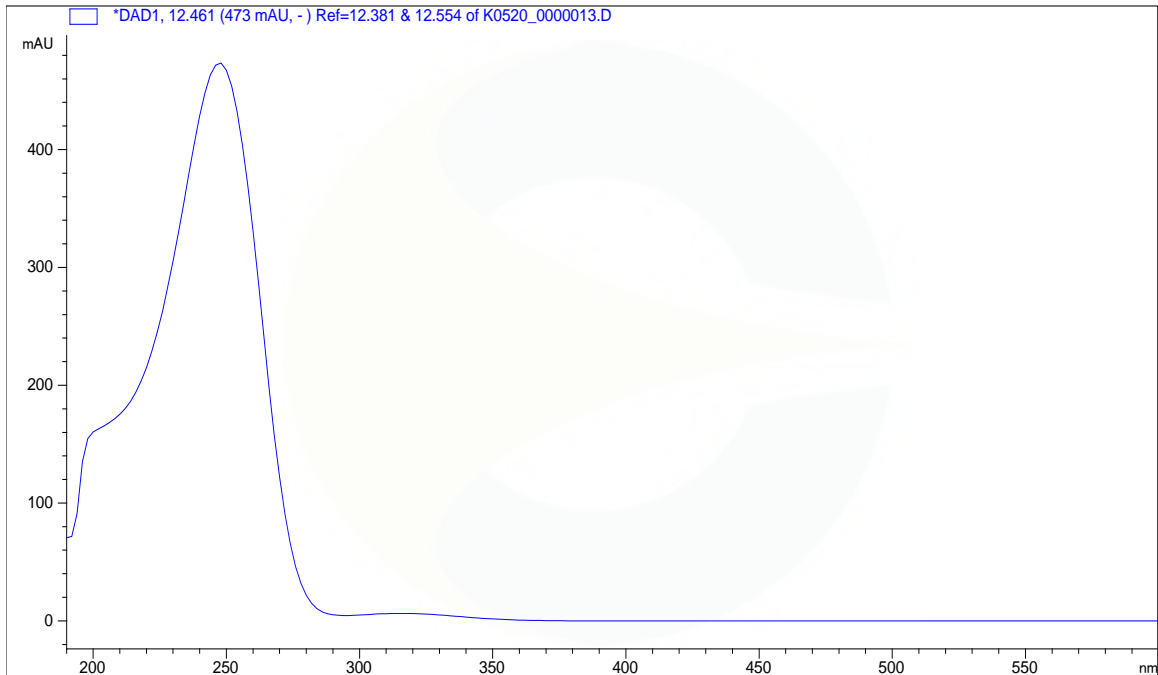


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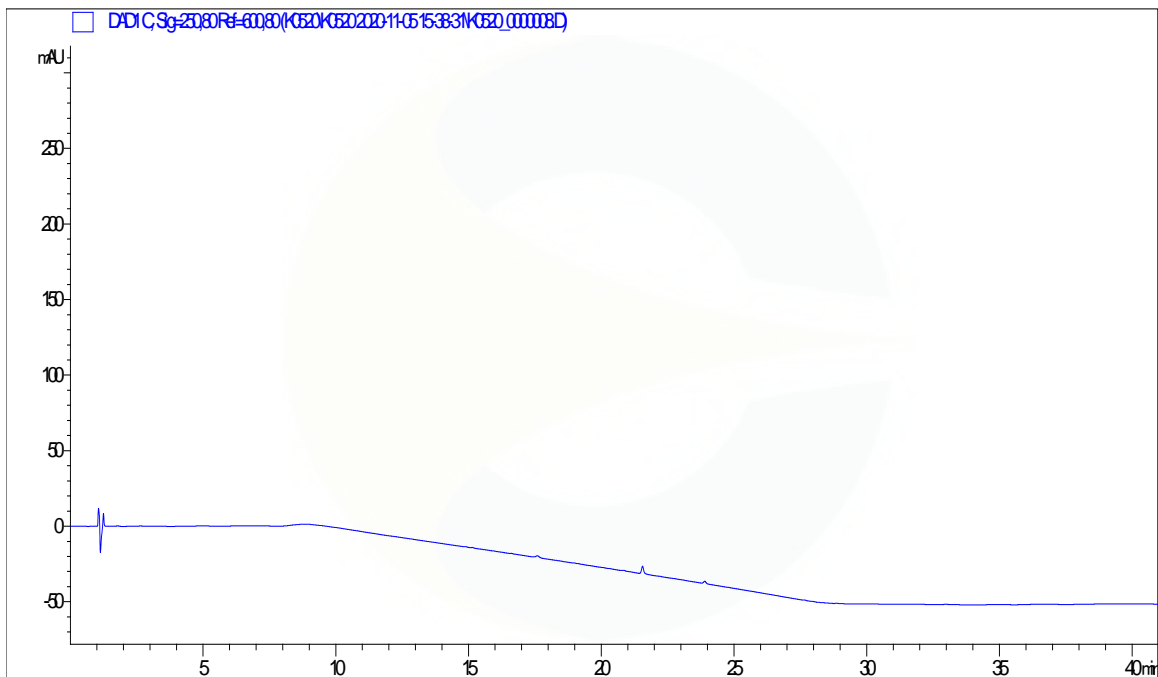
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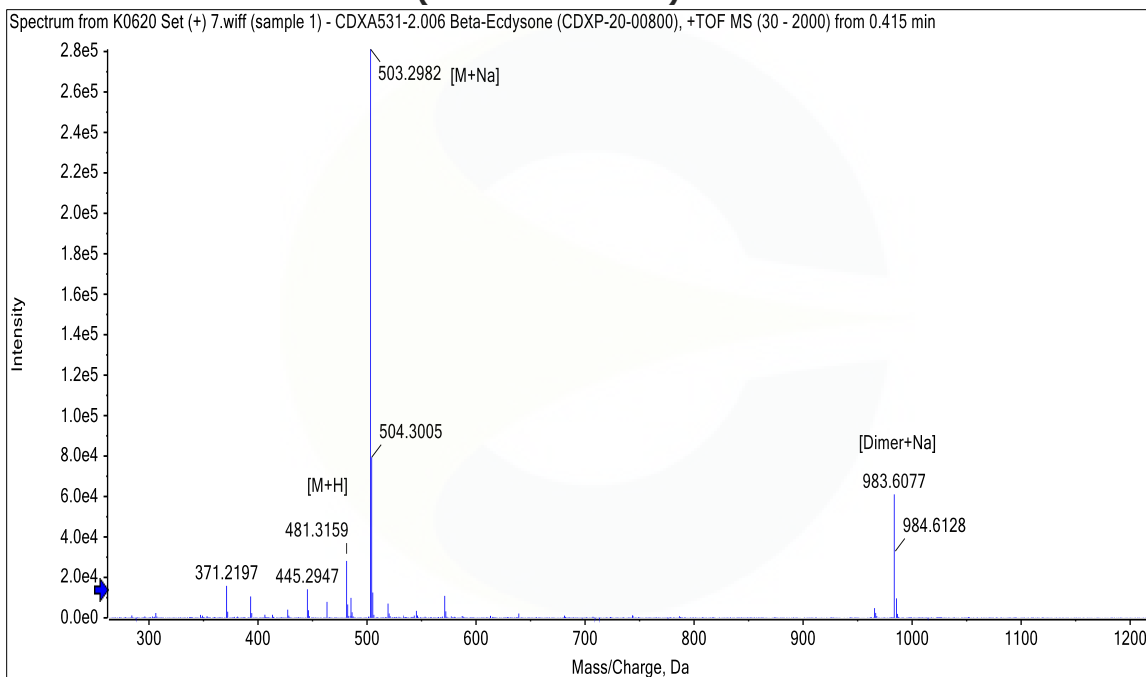
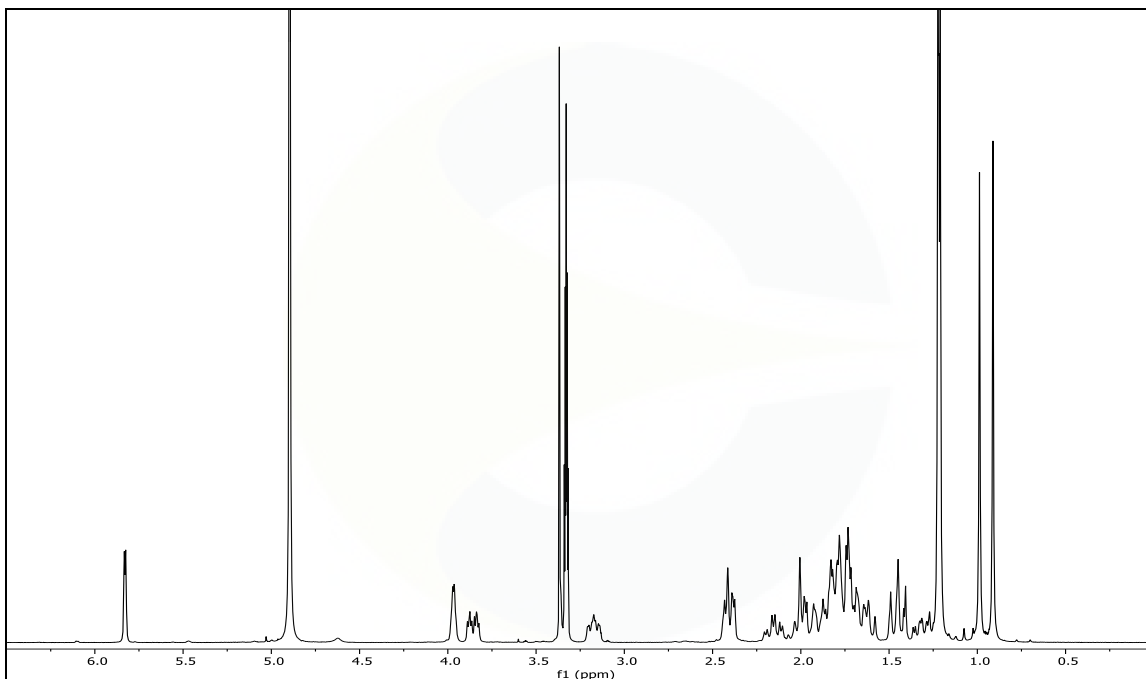
UV SPECTRUM AT 12.5 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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MASS SPECTRUM OF BETA-ECDYSONE (CDXP-20-00800)

¹H-NMR SPECTRUM OF BETA-ECDYSONE (CDXP-20-00800) IN CD₃OD


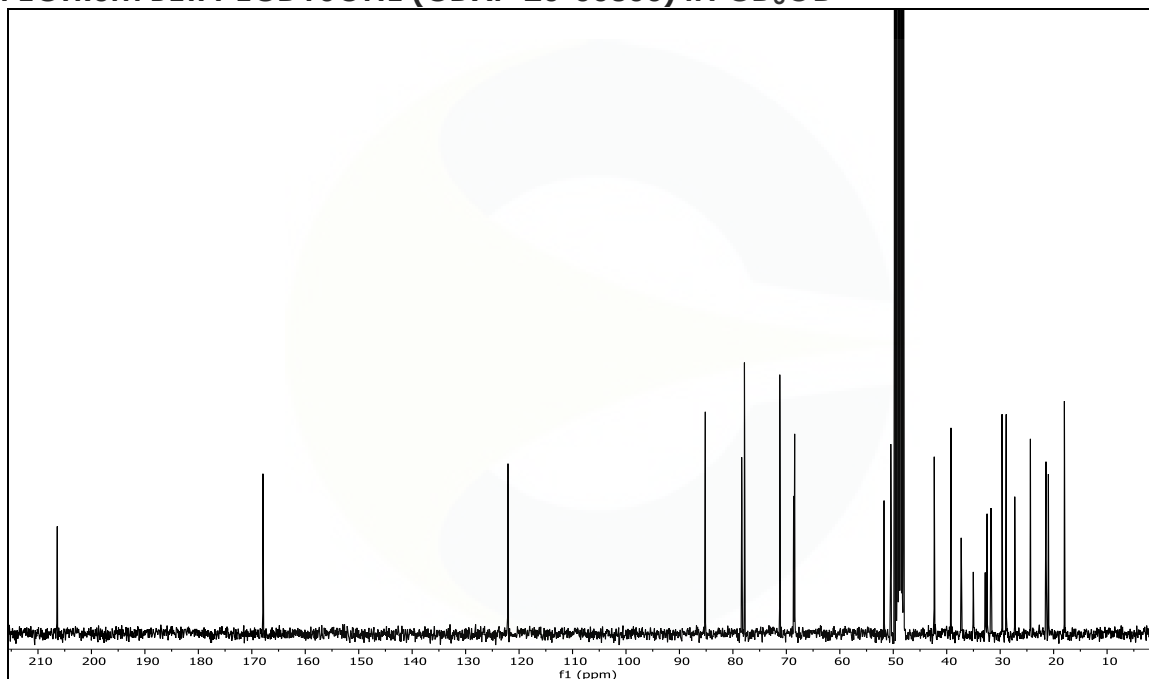
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¹³C-NMR SPECTRUM BETA-ECDYSONE (CDXP-20-00800) IN CD₃OD

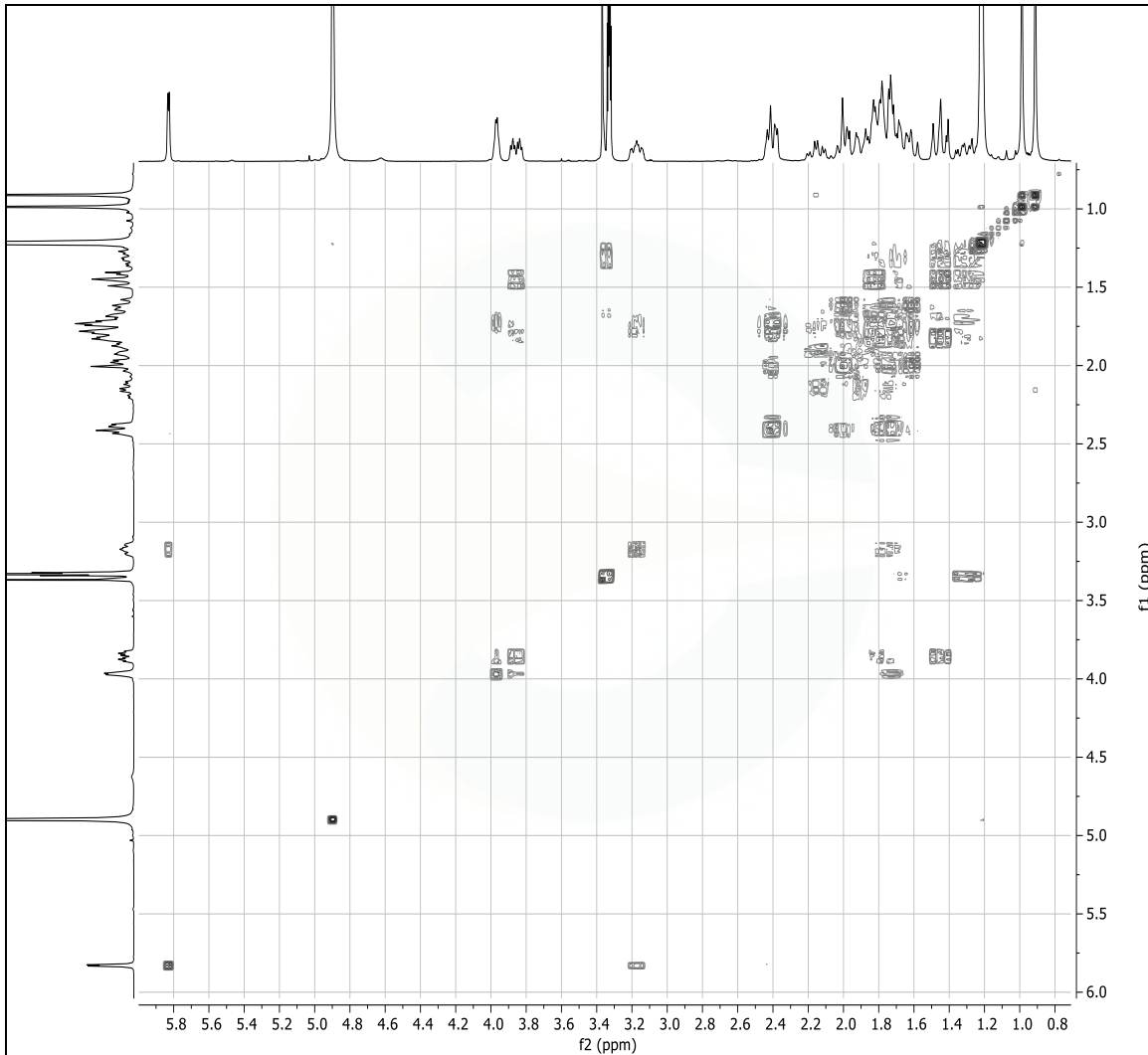
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COSY-NMR SPECTRUM OF BETA-ECDYSONE (CDXP-20-00800) IN CD₃OD

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/10/2020	New report

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