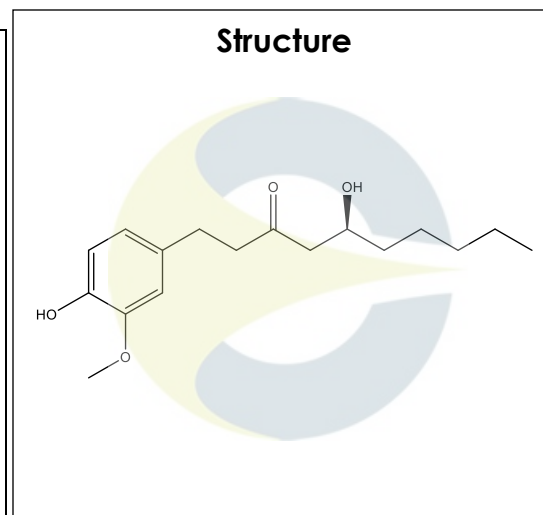


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PRODUCT NAME	6-Gingerol
PART NUMBER	00007164
STANDARD TYPE	Primary (P)
LOT NUMBER	00007164-783
REPORT NUMBER	CDXA-RSS-7160-01
SAMPLE NUMBER	CDXA-16-004952
DATE OF SAMPLE	05/23/2016
DATE OF RE-EVALUATION	06/23/2020
DATE OF REPORT	07/30/2020



CHEMICAL NAMES	(5S)-5-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-decanone; (+)-(6)-Gingerol; (S)-6)Gingerol
CHEMICAL FORMULA	C ₁₇ H ₂₆ O ₄
MOLECULAR WEIGHT (MW)	294.39
CHEMICAL FAMILY	Phenolic acids
CAS NUMBER	[23513-14-6]
EC#(EINECS)	607-241-6
RTECS	HE0757000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.6%
HPLC	0.700.10.2.METH22	NA	99.6%
NMR	4.5.3-CD-4.0-000338	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-CDXA-2.0-000126	Conforms	Conforms
Residual Solvent	99.1-CD-9.0-000115	NA	ND
Water	0.700.12.37	NA	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	-20 °C in a dry place.
EXPIRATION DATE	06/2025 under the above conditions.

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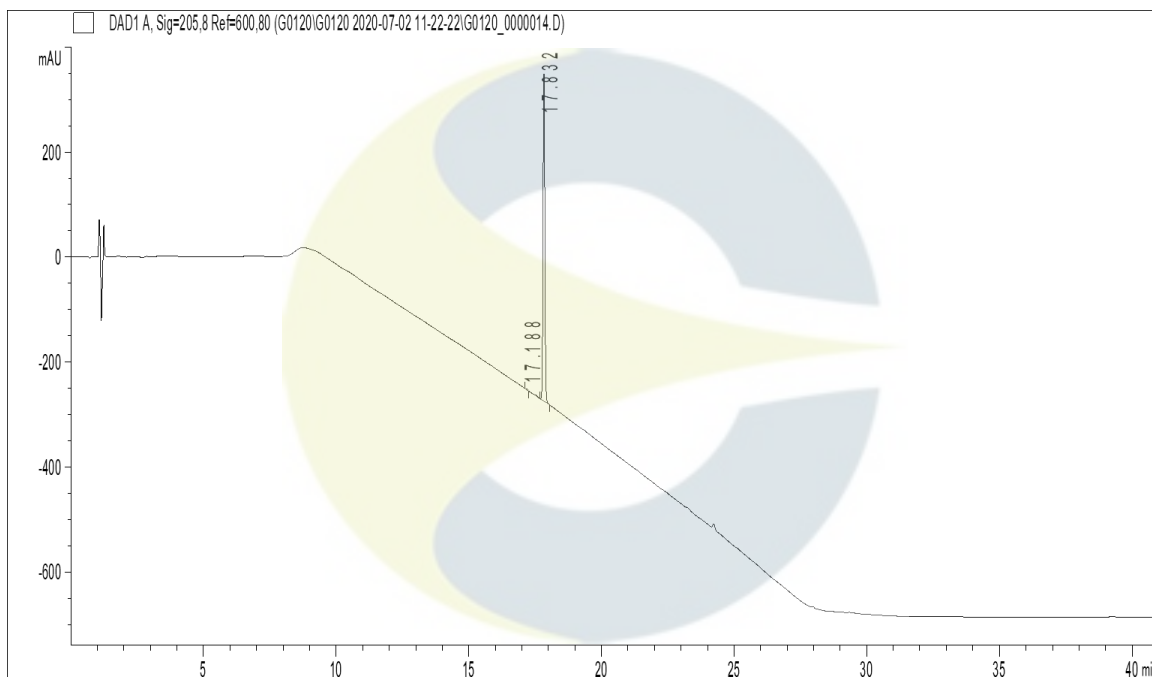
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ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
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.	0.2 µL
INJECTION CONC.	1.2 mg/mL in Methanol
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF 6-GINGEROL (CDXA-16-004952)

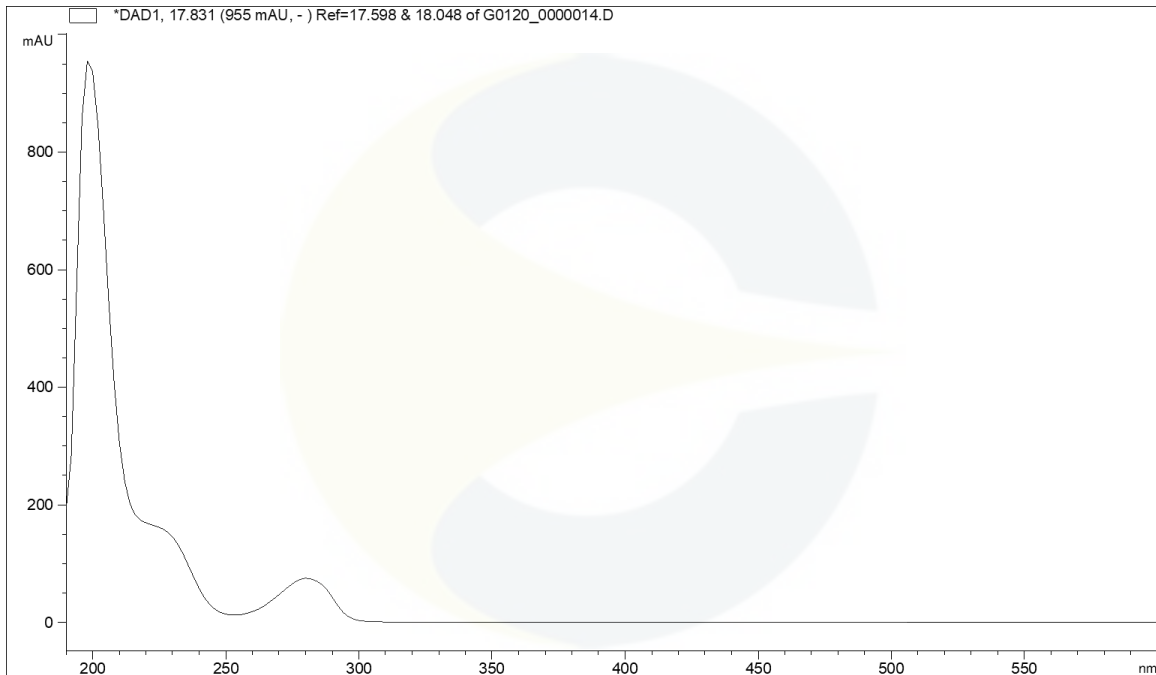


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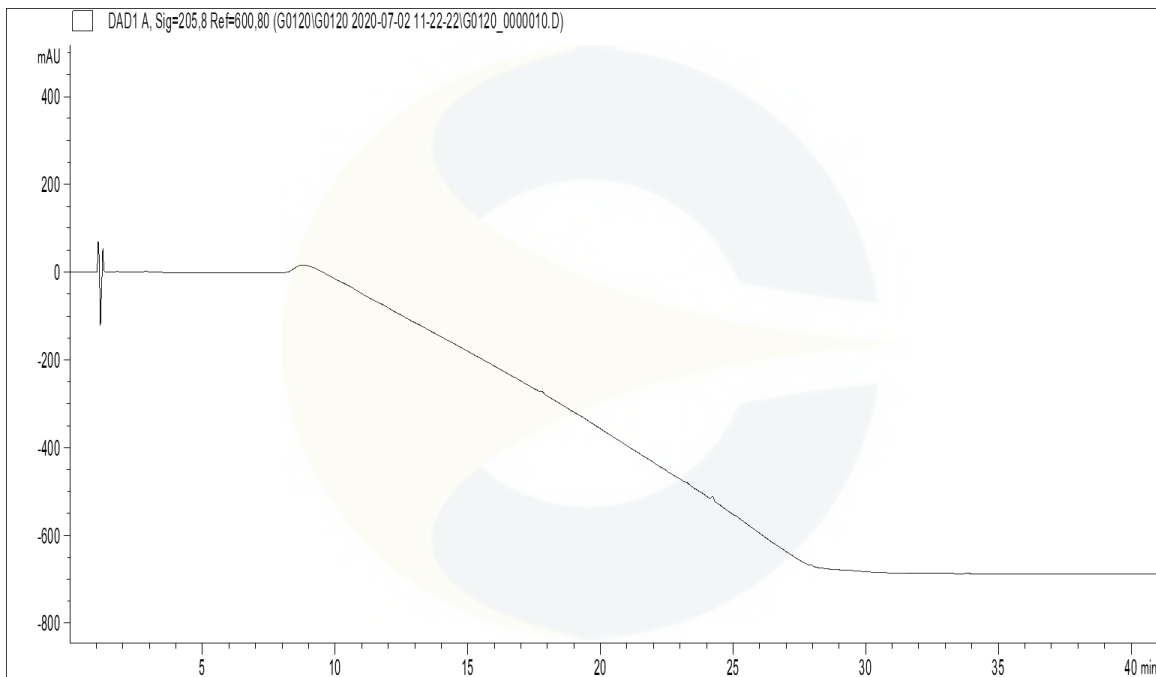
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UV SPECTRUM AT RT 17.8 MINUTES

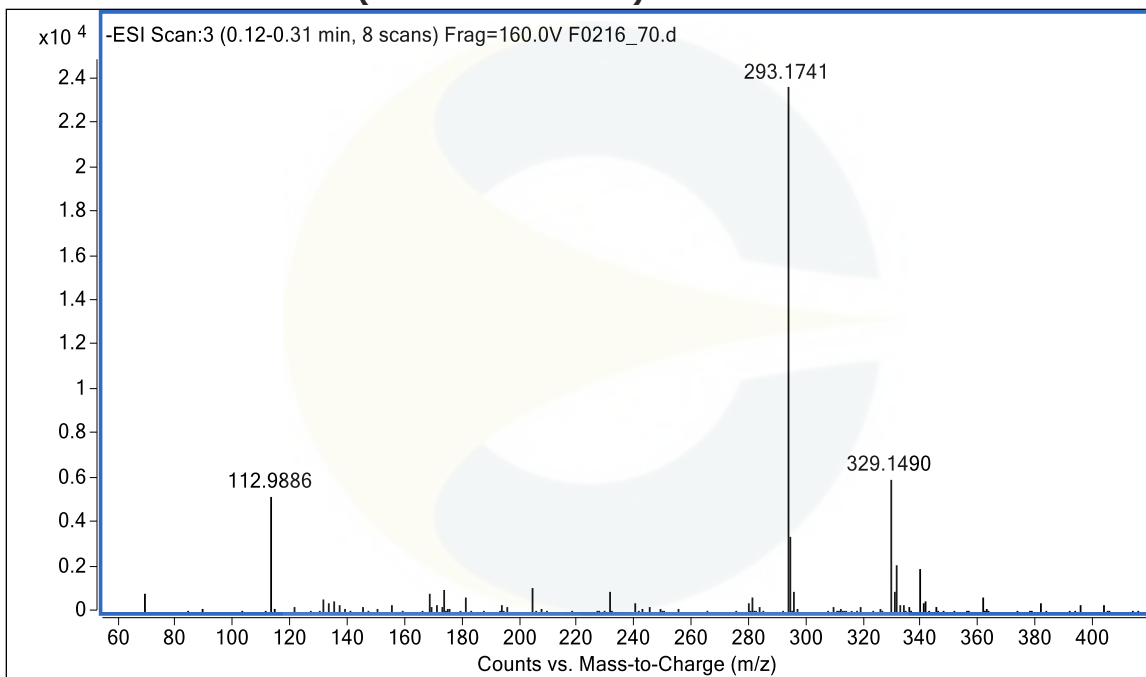


HPLC CHROMATOGRAM OF DILUENT BLANK

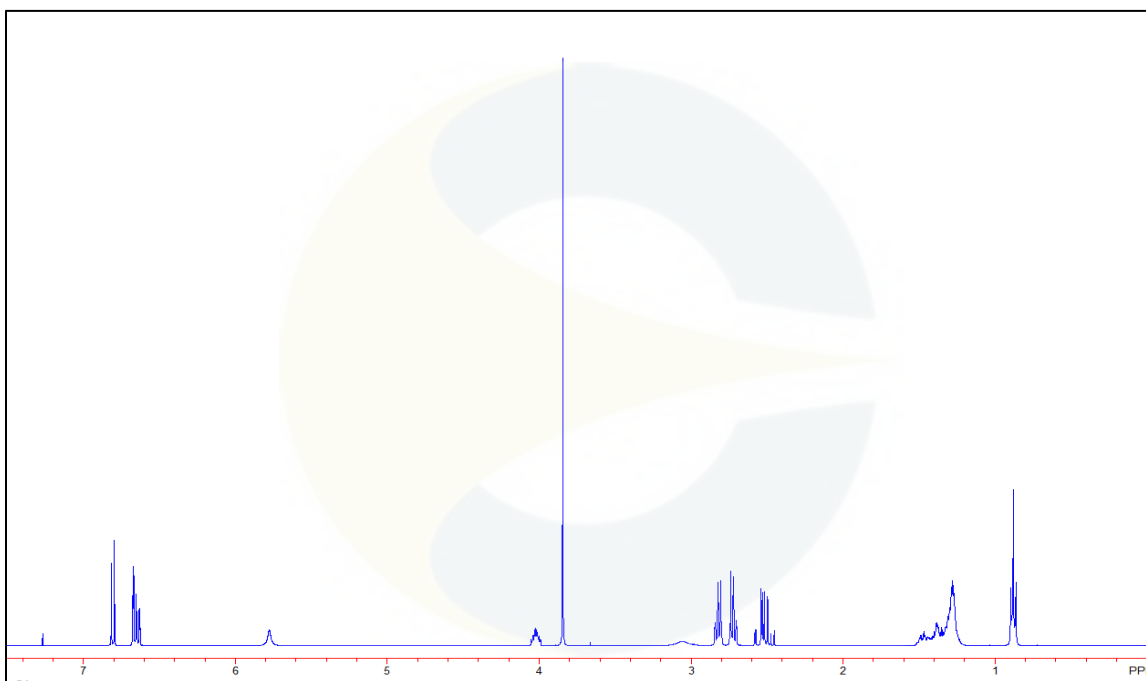


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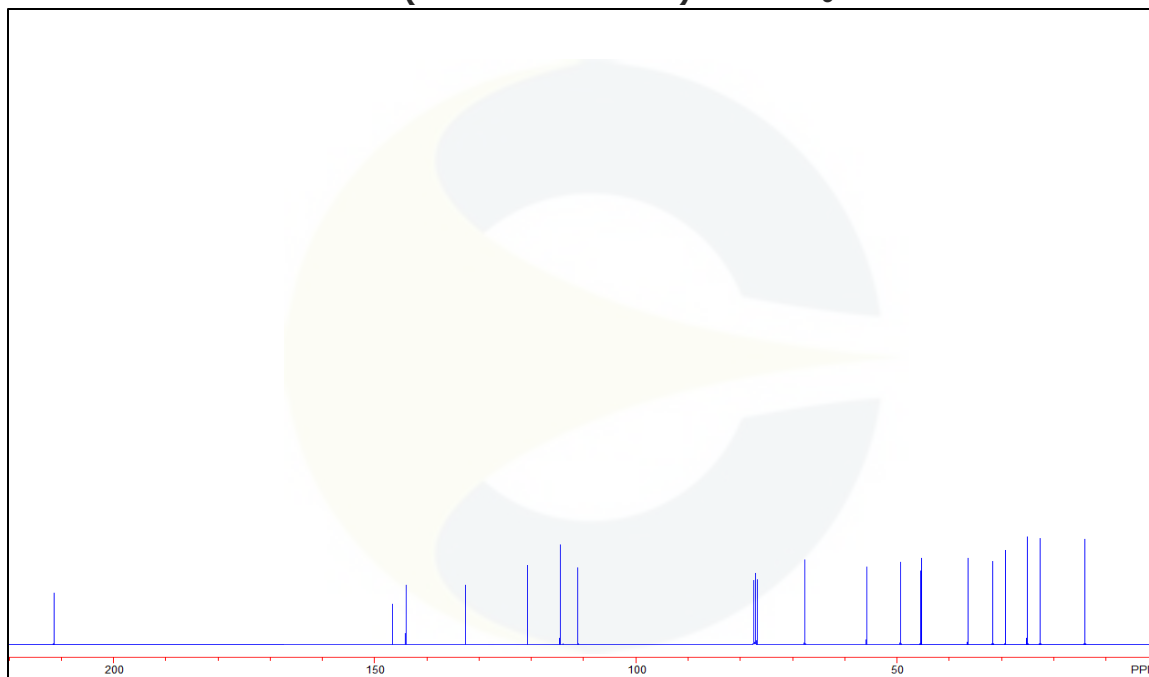
MASS SPECTRUM OF 6-GINGEROL (CDXA-16-004952)



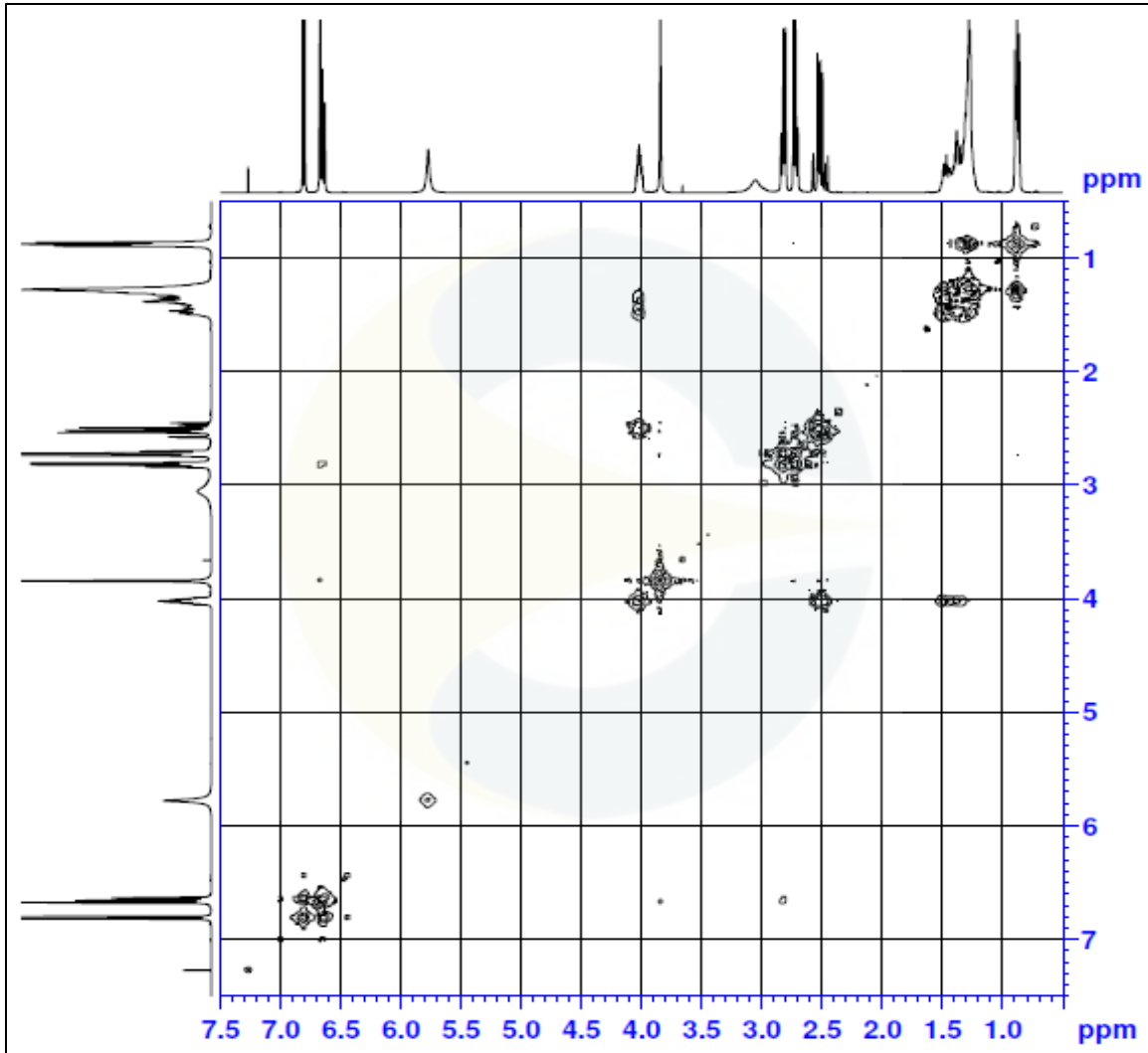
¹H-NMR SPECTRUM OF 6-GINGEROL (CDXA-16-004952) IN CDCl₃



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¹³C-NMR SPECTRUM OF 6-GINGEROL (CDXA-16-004952) IN CDCl₃

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COSY-NMR SPECTRUM OF 6-GINGEROL (CDXA-16-004952) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	06/22/2016	New report
01	07/30/2020	Passed re-evaluation by HPLC, KF. Updated expiration date, analytical method, conditions, chromatograms, and results. Added EINECS number and removed melting point.

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