CONFIDENTIAL

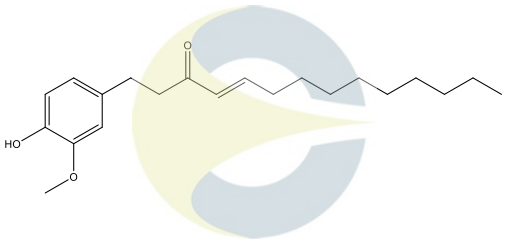
SPECIMEN

Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	10-Shogaol
PART NUMBER	00019214
STANDARD TYPE	Primary (P)
LOT NUMBER	00019214-519
REPORT NUMBER	CDXA-RSS-8538-00
SAMPLE NUMBER	CDXP-19-00158
DATE OF SAMPLE	02/25/2019
DATE OF REPORT	03/19/2019

Structure



CHEMICAL NAMES	4-Tetradecen-3-one, 1-(4-hydroxy-3-methoxyphenyl)-, (4E)-; trans-[10]-Shogaol
CHEMICAL FORMULA	$C_{21}H_{32}O_3$
MOLECULAR WEIGHT (MW)	332.48
CHEMICAL FAMILY	Gingerols
CAS NUMBER	[104186-05-2]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.1%
HPLC	99.1-04-1.0-000684	NA	99.3%
NMR	30.1-04-1.0-000733	Conforms to structure	Conforms to structure
Mass Spectrum	99.1-04-3.0-000126	Conforms	Conforms
Residual Solvent	99.1-CDXA-3.0-000621	NA	MeOH 0.2%
Water	99.1-04-10.0-000094	NA	ND
Appearance	NA	NA	Brown Oil

ADJUSTED PURITY: 99.1% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.3% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2024 under the above conditions.

Matthew Thibault

Digitally signed by Matthew Thibault
Date: 2019.03.19 14:20:22 -06'00'

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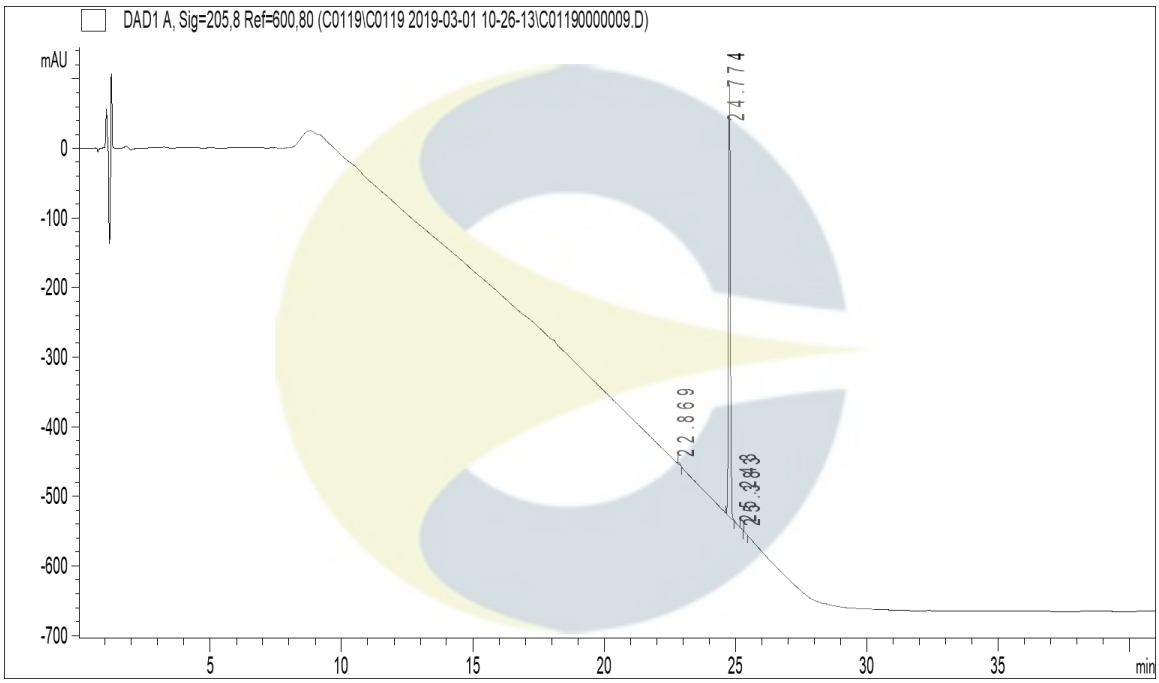
ANALYTICAL CONDITIONS

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.	0.2 µL
INJECTION CONC.	1.0 mg/mL in Methanol
DETECTION	205 ± 4 nm

HPLC CHROMATOGRAM OF 10-SHOGAOL (CDXP-19-00158)



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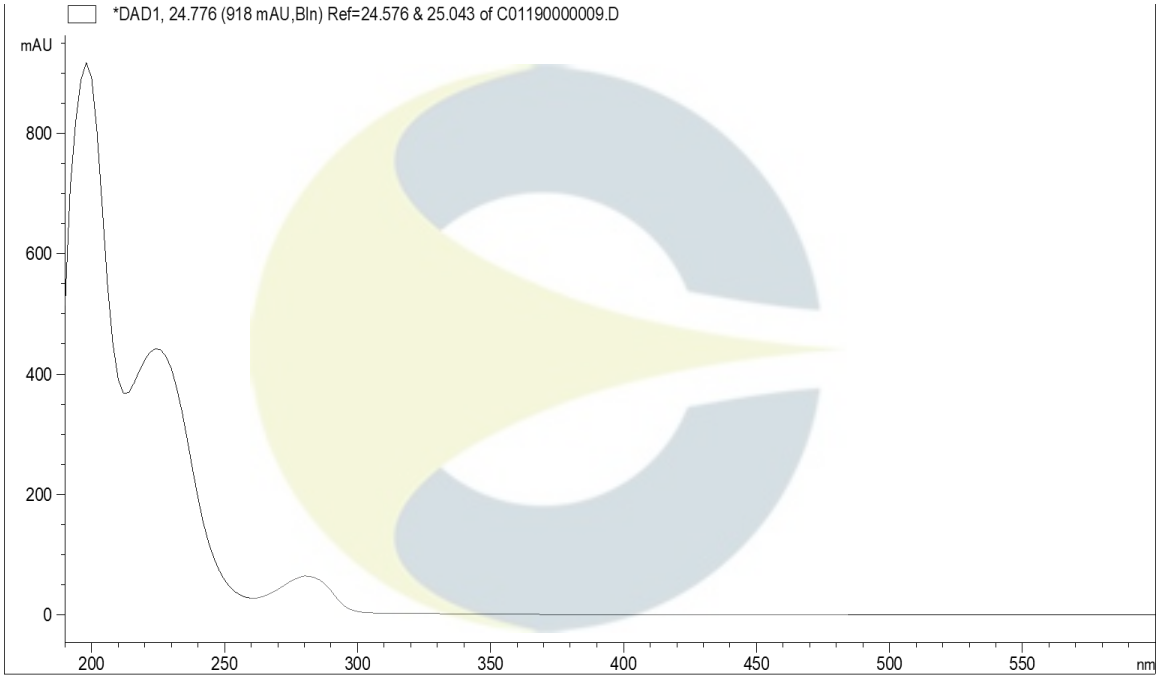
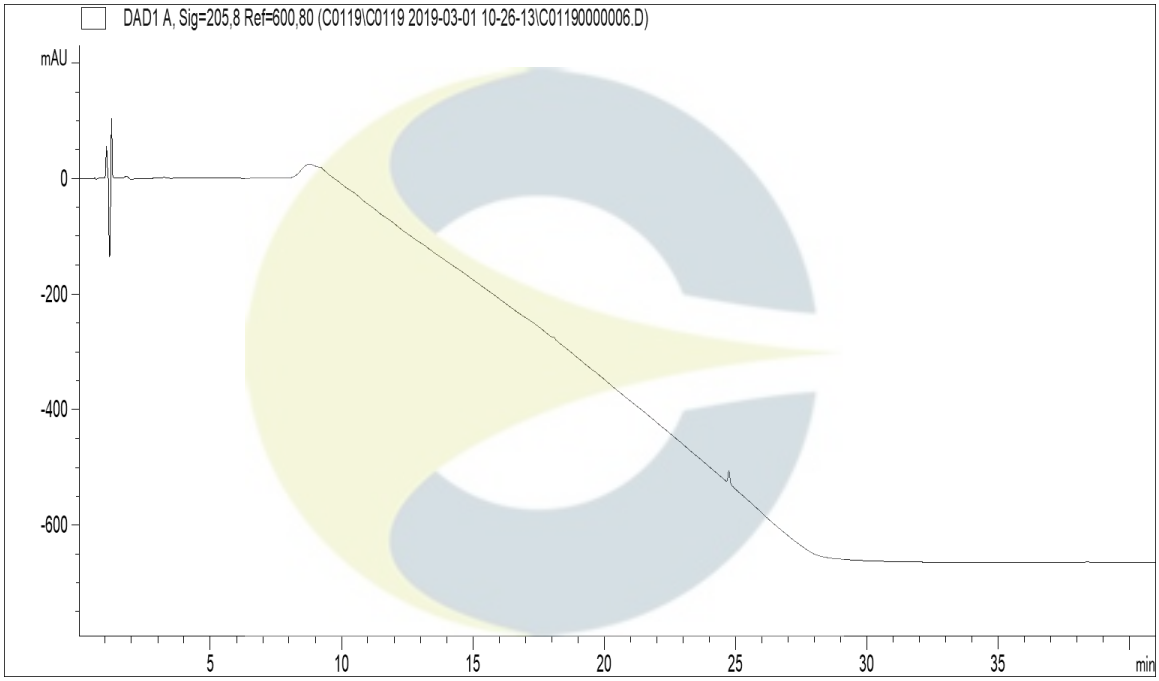
UV SPECTRUM AT RT 24.8 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK



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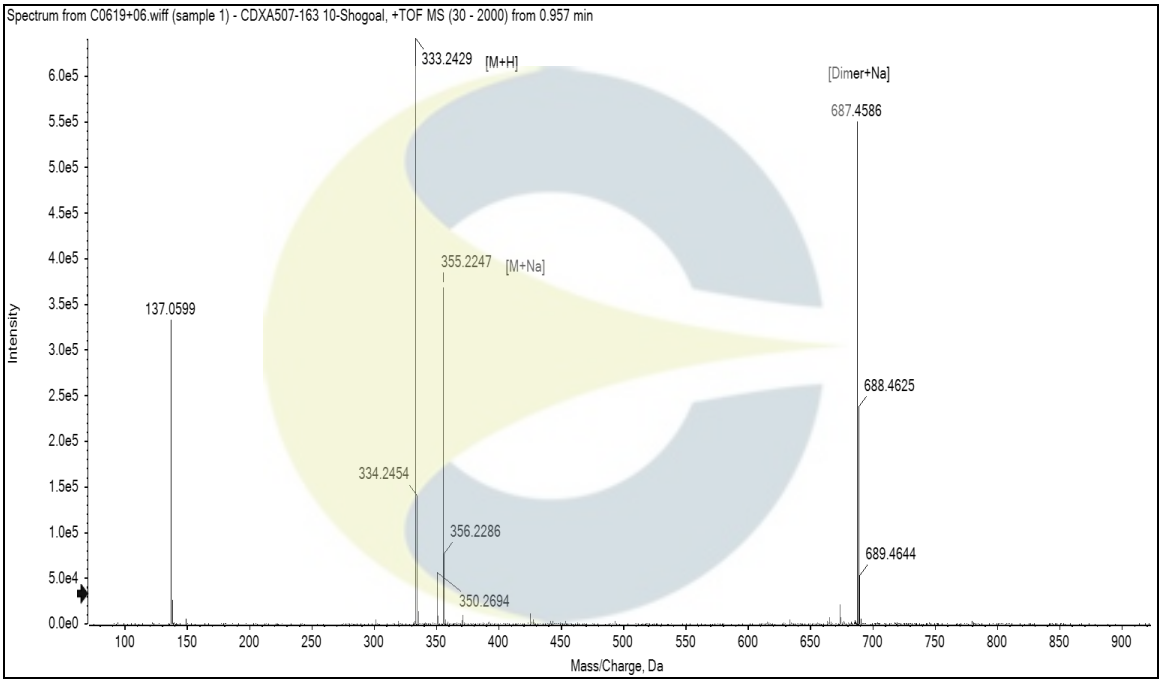
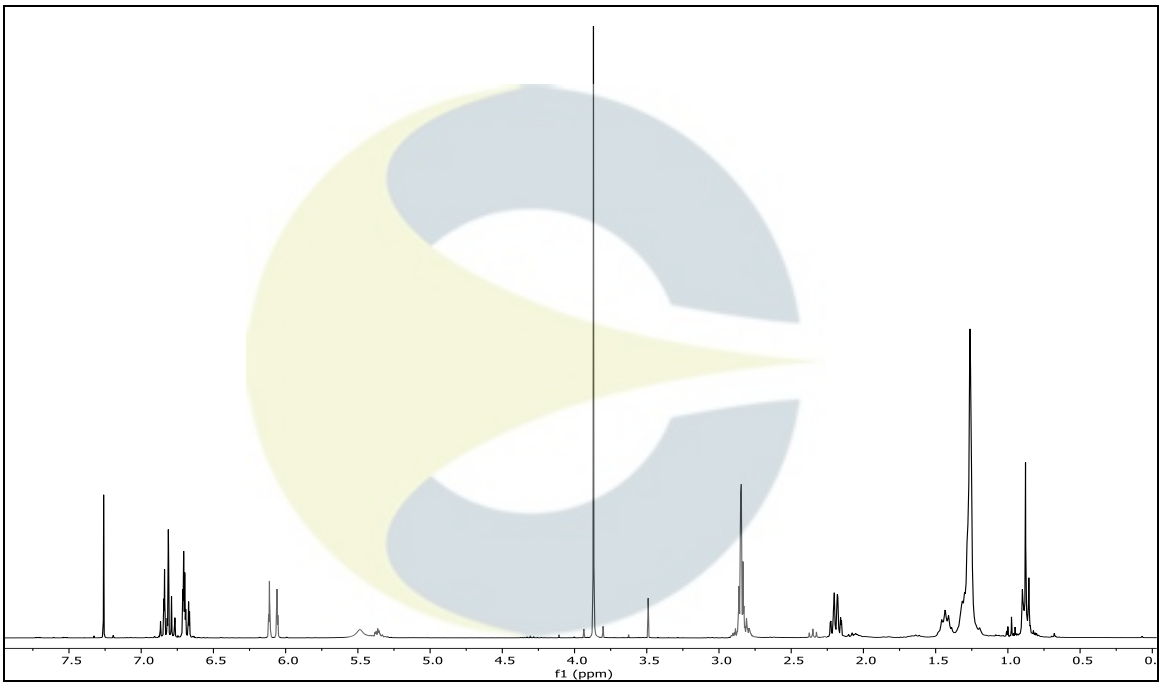
MASS SPECTRUM OF 10-SHOGAOL (CDXP-19-00158)



^{1}H-NMR SPECTRUM OF 10-SHOGAOL (CDXP-19-00158) IN $CDCl_3$



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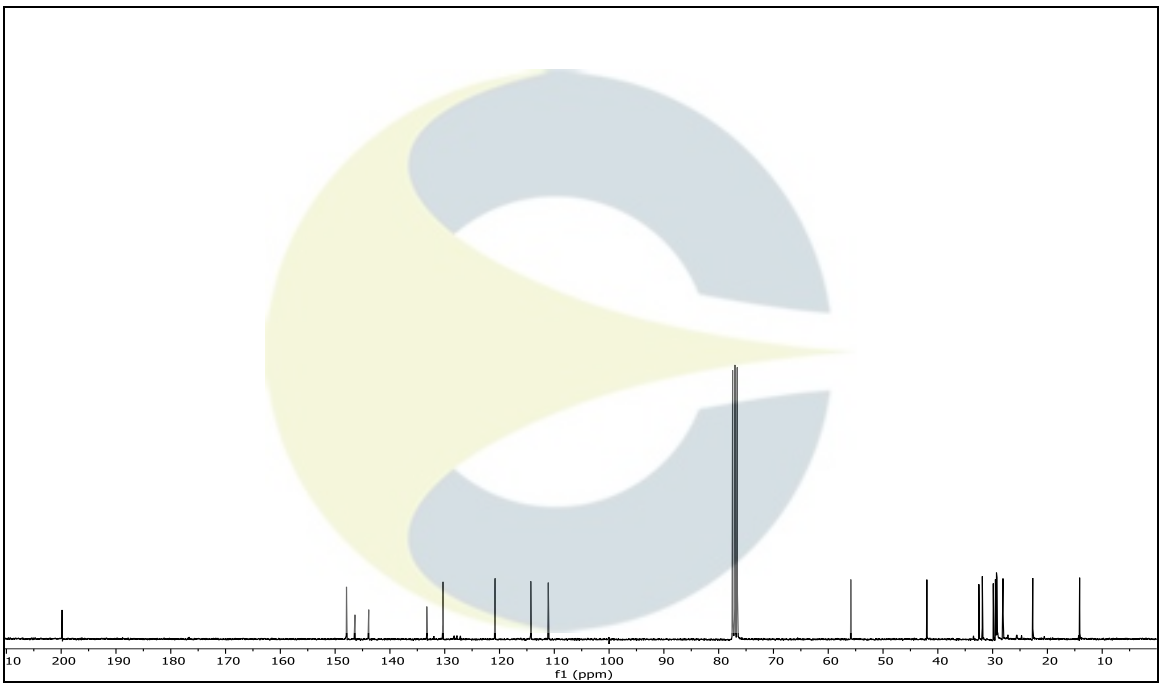
^{13}C-NMR SPECTRUM 10-SHOGAOL (CDXP-19-00158) IN $CDCl_3$



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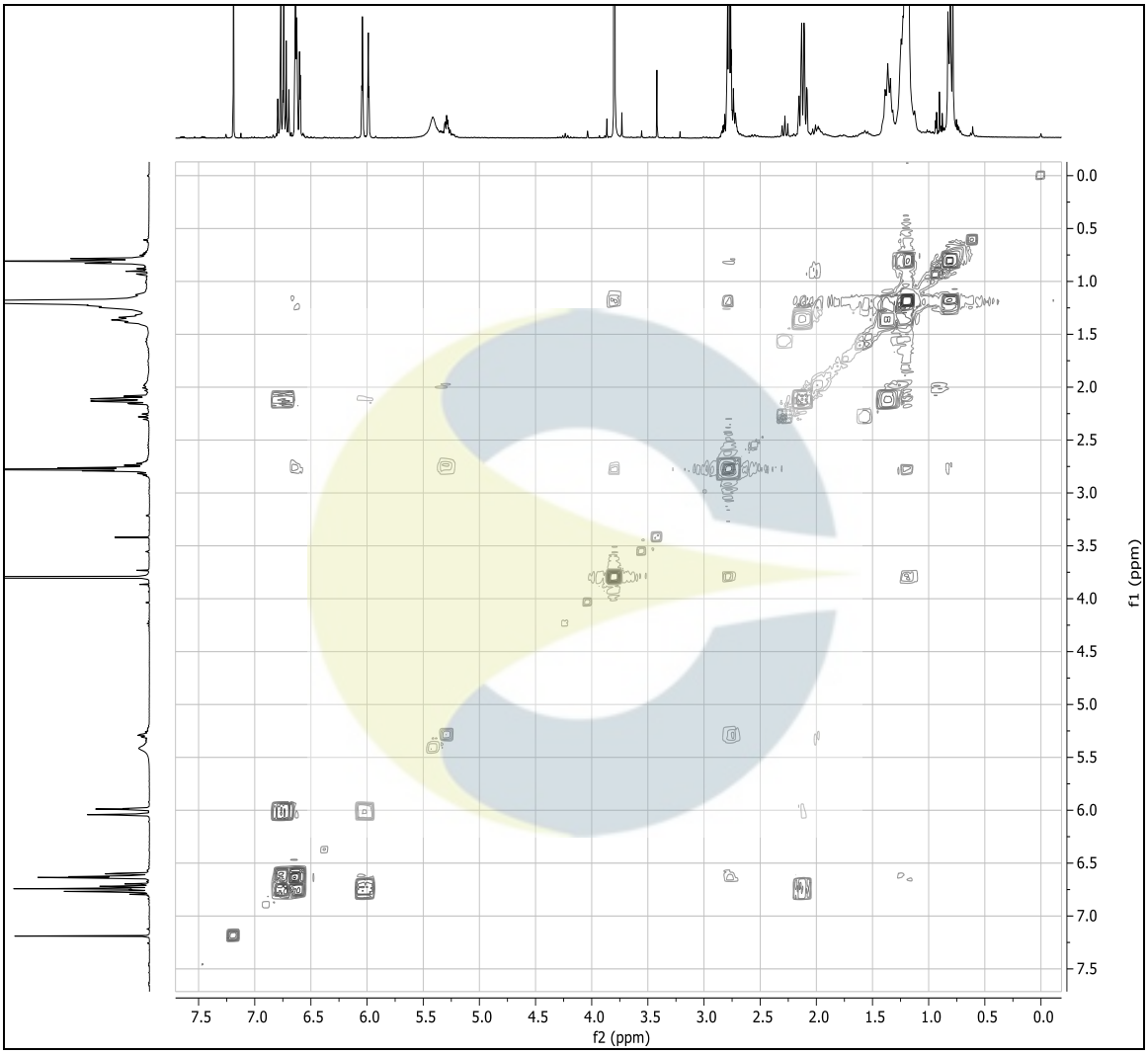
COSY-NMR SPECTRUM OF 10-SHOGAOL (CDXP-19-00158) IN $CDCl_3$



REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	03/19/2019	New report

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