



### **SPECIMEN**

# Certificate of Analysis

For Laboratory Use Only

(+)-8-Gingerol	Structure
00007166	
Primary (P)	о он
00007166-023	
CDXA-RSS-9181-01	HO
CDXP-20-00722	
09/30/2020	
06/30/2021	
07/07/2021	
	00007166 Primary (P) 00007166-023 CDXA-RSS-9181-01 CDXP-20-00722 09/30/2020 06/30/2021

CHEMICAL NAMES	3-Dodecanone, 5-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-, (S)-(+)- (8CI); (5S)-5-
	Hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-dodecanone; (S)-(+)-[8]-Gingerol

CHEMICAL FORMULA	C19H30O4
MOLECULAR WEIGHT (MW)	322.44
CHEMICAL FAMILY	Phenolic acids
CAS NUMBER	[23513-08-8]
EC#(EINECS)	664-008-1
RTECS	JR4362000

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.4%
HPLC	0.700.10.2.METH22	≥ 90%	99.5%
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 – 655 ppm
Water	Water 0.700.12.37		ND
Appearance	NA	NA	Yellow resin

\*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.4% IS BASED ON (100 - 0.1 SOLVENTS - 0.0 WATER) X 99.5% HPLC

#### **STORAGE CONDITIONS**

STORAGE

-20 °C in a dry place.

**EXPIRATION DATE** 06/2026 under the above conditions.

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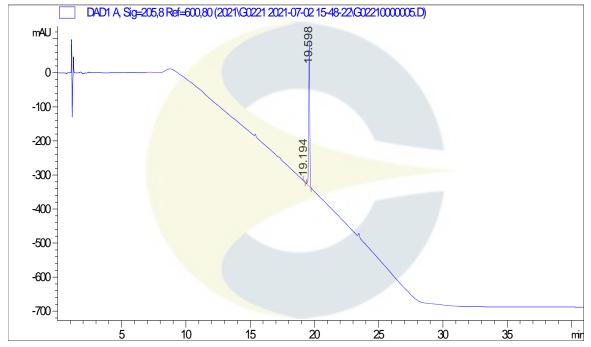
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### ANALYTICAL CONDITIONS

INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AB-SCIEX 6600 TRIPLE TOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 $\mu$ m 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.	0.2 μL
INJECTION CONC.	1.1 mg/mL in Methanol
DETECTION	205 ± 4 nm

#### HPLC CHROMATOGRAM OF (+)-8-GINGEROL (CDXP-20-00722)



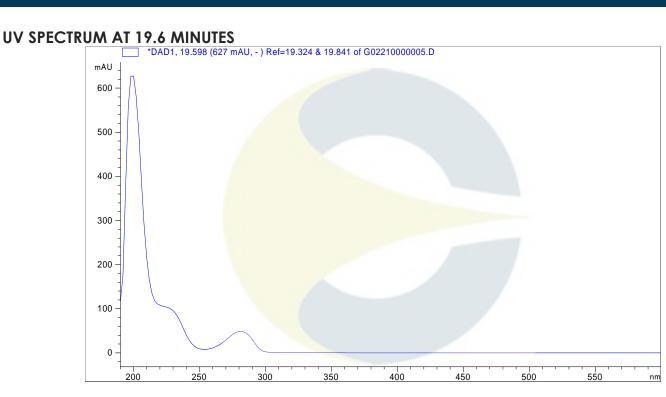




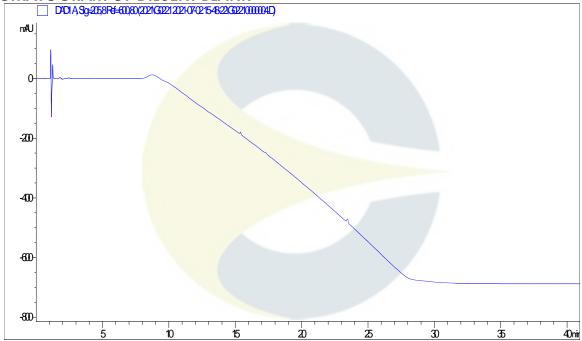
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#### HPLC CHROMATOGRAM OF DILUENT BLANK



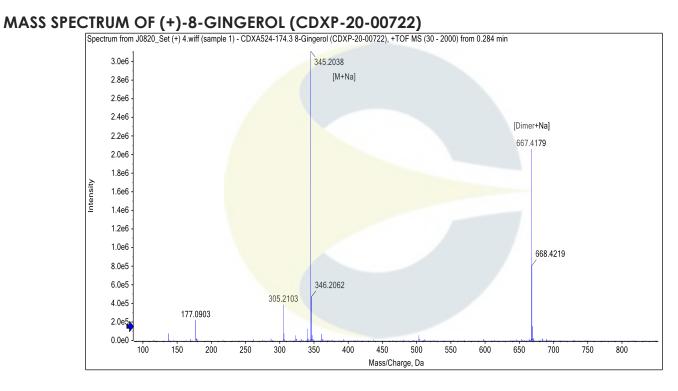




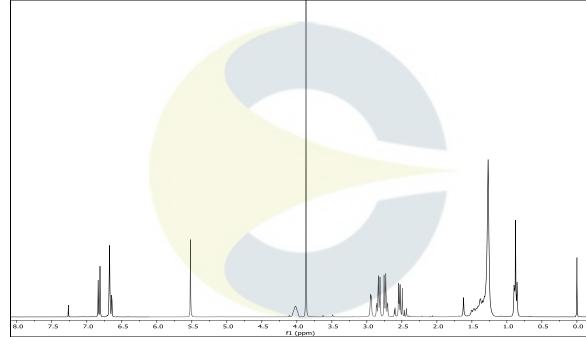
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#### <sup>1</sup>H-NMR SPECTRUM OF (+)-8-GINGEROL (CDXP-20-00722) IN CDCl<sub>3</sub> + TMS



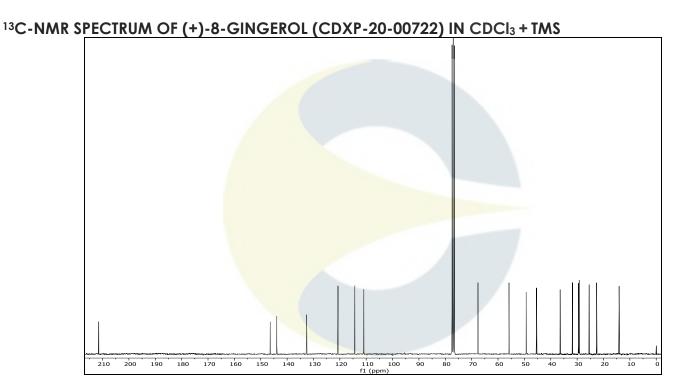




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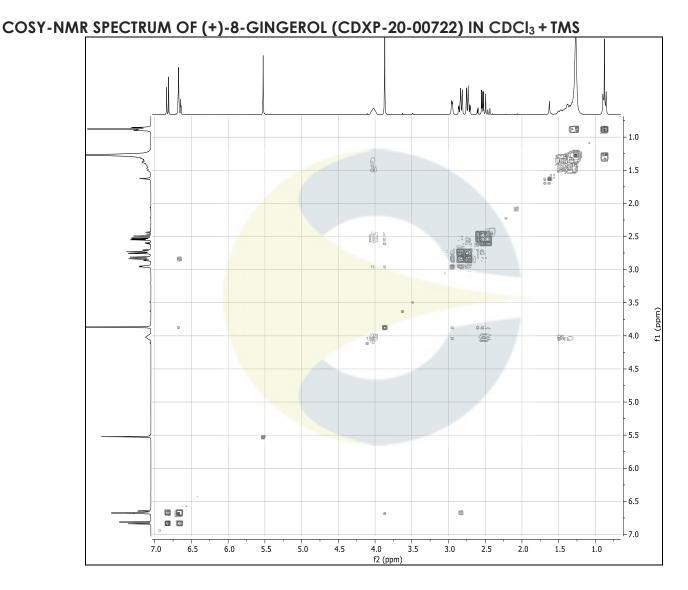




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#### **REVISION HISTORY**

<u>Revision History</u>	Date of Revision	Document/Changes
00	11/17/2020	New report
01	07/07/2021	Material passed reevaluation by HPLC and KF. Updated analytical conditions, results, and expiration date.

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