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PRODUCT NAME Bakuchiol

PART NUMBER 00002034

STANDARD TYPE Primary (P)

LOT NUMBER 00002034-321

REPORT NUMBER CDXA-RSS-8406-00

SAMPLE NUMBER CDXP-18-01255

DATE OF SAMPLE 11/19/2018

DATE OF REPORT 12/17/2018

CHEMICAL NAMES 4-[(1E,3S)-3-Ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol; (+)-Bakuchiol;

(S)-(+)-Bakuchiol; (S)-Bakuchiol; Drupanol;

CHEMICAL FORMULA C₁₈H₂₄O

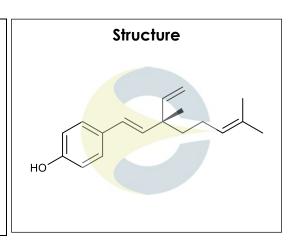
MOLECULAR WEIGHT (MW) 256.38

CHEMICAL FAMILY Terpenes

CAS NUMBER [10309-37-2]

EC#(EINECS) 685-515-4

RTECS SL3785000



ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	95.4%
HPLC	99.1-04-1.0-000684	NA	97.6%
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	EtOAc - 1.2% Acetone < 0.1%; DCM < 0.1%
Water	99.1-04-9.0-000094	NA	1.1%
Appearance	NA	NA	Oil

ADJUSTED PURITY: 95.4% IS BASED ON (100 - 1.2 SOLVENTS - 1.1 WATER) X 97.6% HPLC

STORAGE CONDITIONS

STORAGE -20 °C in a dry place. Protect from light and air.

EXPIRATION DATE 11/2023 under the above conditions.









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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

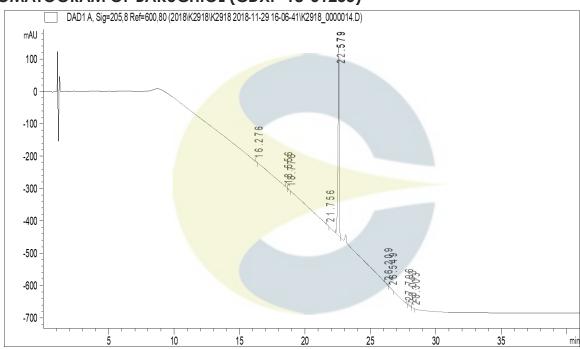
FLOW RATE 0.4 mL/minute

INJECTION VOL. 0.4 μL

INJECTION CONC. 0.58 mg/mL in Methanol

DETECTION $205 \pm 4 \text{ nm}$

HPLC CHROMATOGRAM OF BAKUCHIOL (CDXP-18-01255)





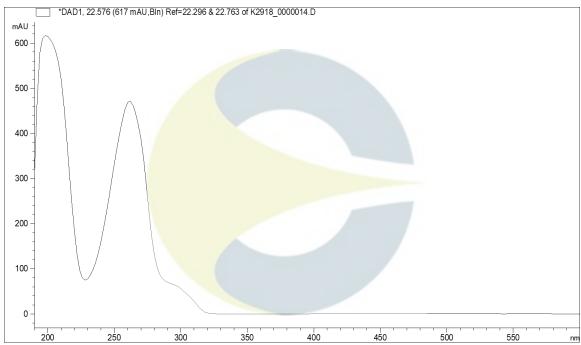




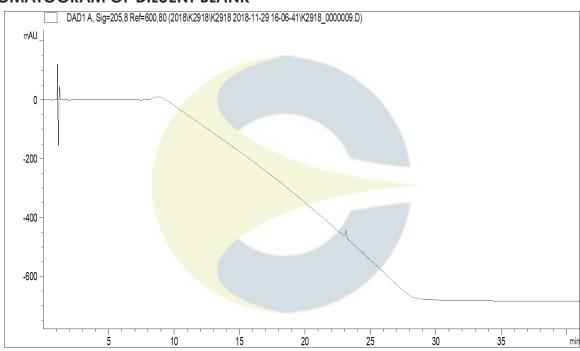


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UV SPECTRUM AT RT = 22.6 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK





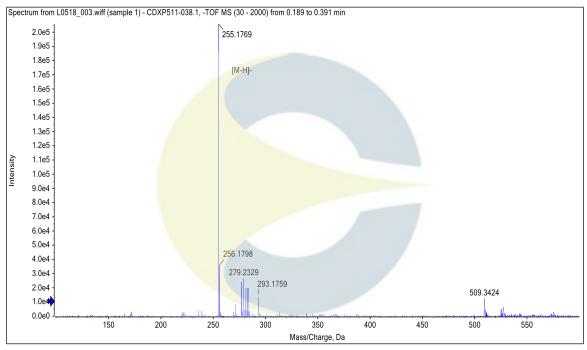




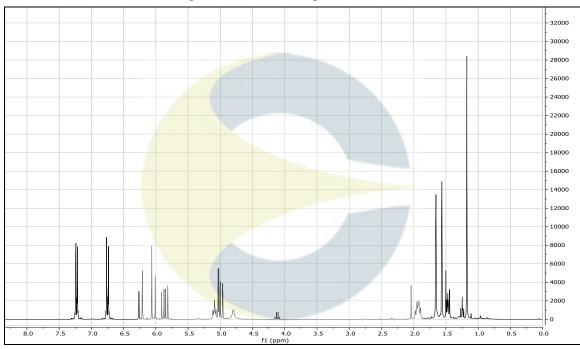


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MASS SPECTRUM OF BAKUCHIOL (CDXP-18-01255)



¹H-NMR SPECTRUM OF BAKUCHIOL (CDXP-18-01255) IN CDCl₃





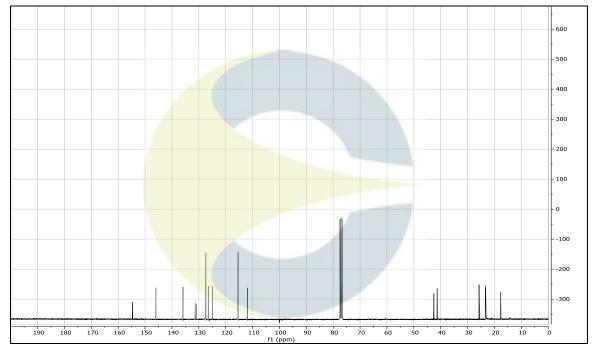






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¹³C-NMR SPECTRUM BAKUCHIOL (CDXP-18-01255) IN CDCl₃





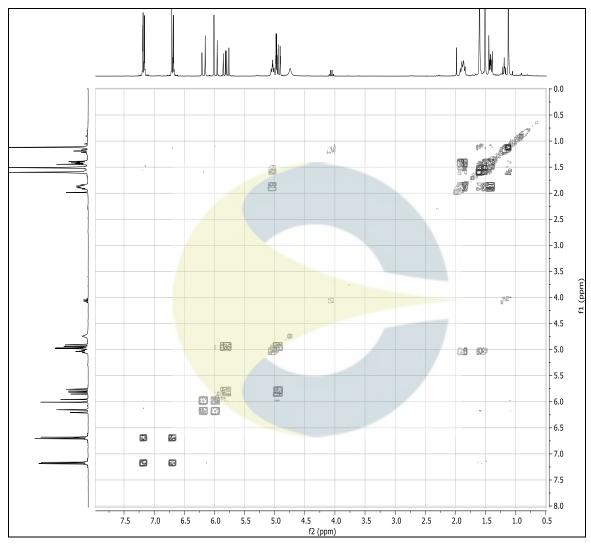






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COSY-NMR SPECTRUM OF BAKUCHIOL (CDXP-18-01255) IN CDCI₃



REVISION HISTORY

Revision History	<u>Date of Revision</u>	Document/Changes

00 12/17/2018 New report