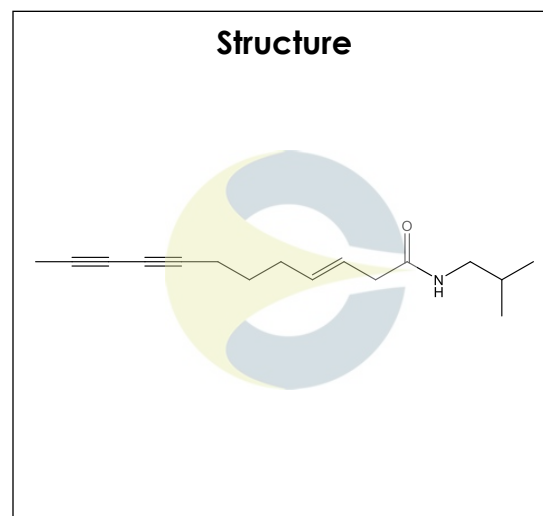


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PRODUCT NAME	Dodec-2E-ene-8,10-diynoic acid isobutylamide
PART NUMBER	00004950
STANDARD TYPE	Primary (P)
LOT NUMBER	00004950-7326
REPORT NUMBER	CDXA-RSS-4227-02
SAMPLE NUMBER	CDXA-10-7326
DATE OF SAMPLE	11/29/2010
DATE OF RE-EVALUATION	05/27/2015 (1 st); 12/11/2019 (2 nd)
DATE OF REPORT	01/06/2020



CHEMICAL NAMES	(2E)-N-(2-Methylpropyl)-2-dodecene-8,10-diynamide
CHEMICAL FORMULA	C ₁₆ H ₂₃ NO
MOLECULAR WEIGHT (MW)	245.36
CHEMICAL FAMILY	Isobutylamides
CAS NUMBER	[120727-29-9]
EC#(EINECS)	NA
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	NA	99.9%
HPLC	99.1-04-1.0-000684	NA	99.9%
NMR	99.1-CD-4.0-000115	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms
Residual Solvent*	99.1-CD-4.0-000115	NA	ND
Water	0.700.12.37	NA	ND
Appearance	NA	NA	Off white powder

*Testing performed at an ISO 17025 accredited subcontracted laboratory.

ADJUSTED PURITY: 99.9% IS BASED ON (100 - 0.0 SOLVENTS - 0.0 WATER) X 99.9% HPLC

STORAGE CONDITIONS

STORAGE	-20 °C in a dry place.
EXPIRATION DATE	12/2024 under the above conditions.

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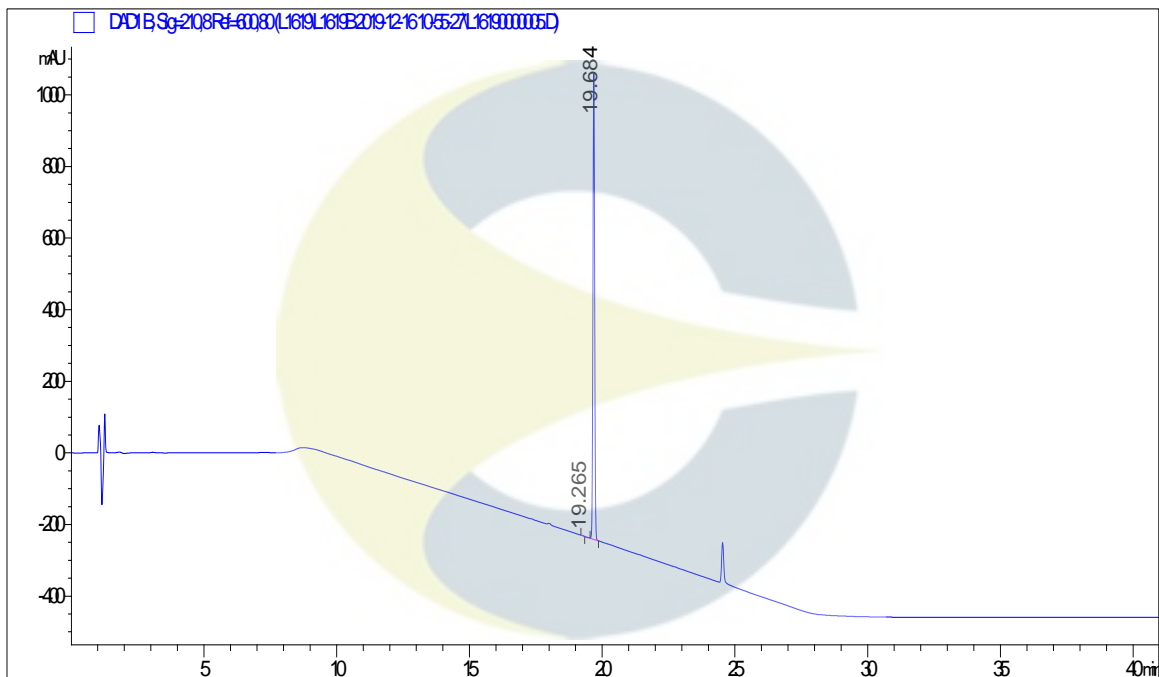
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ANALYTICAL CONDITIONS

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.	0.5 µL
INJECTION CONC.	0.94 mg/mL in Methanol
DETECTION	210 ± 4 nm

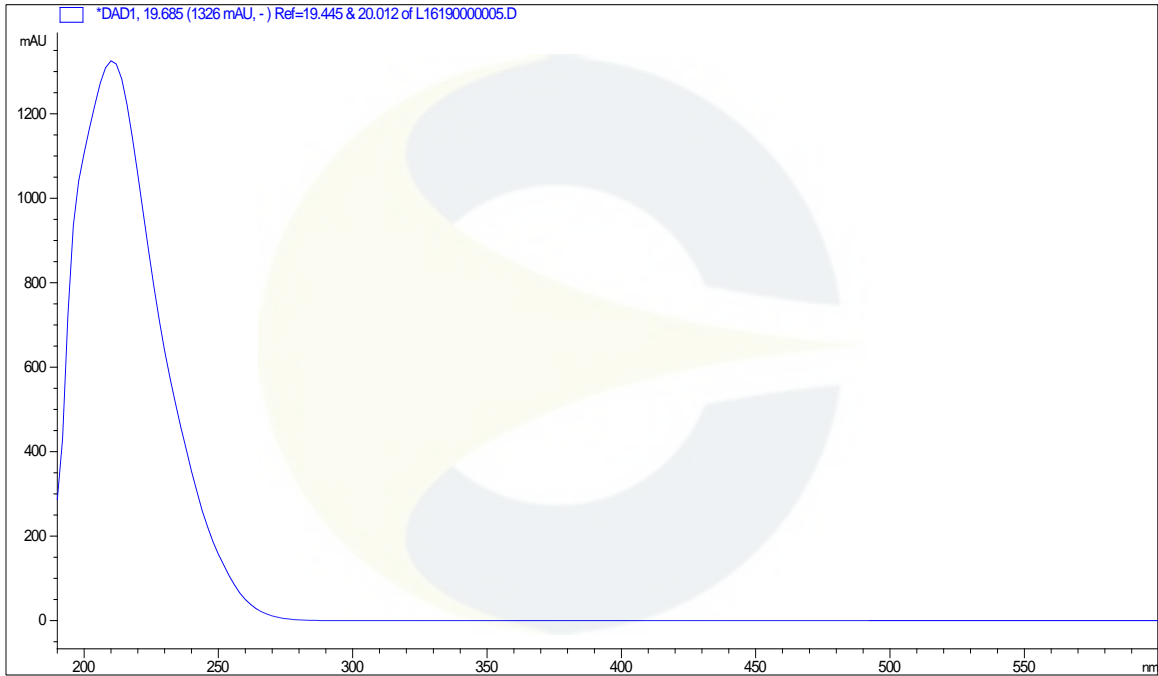
HPLC CHROMATOGRAM OF DODEC-2E-ENE-8,10-DIYNOIC ACID ISOBUTYLAMIDE (CDXA-10-7326)



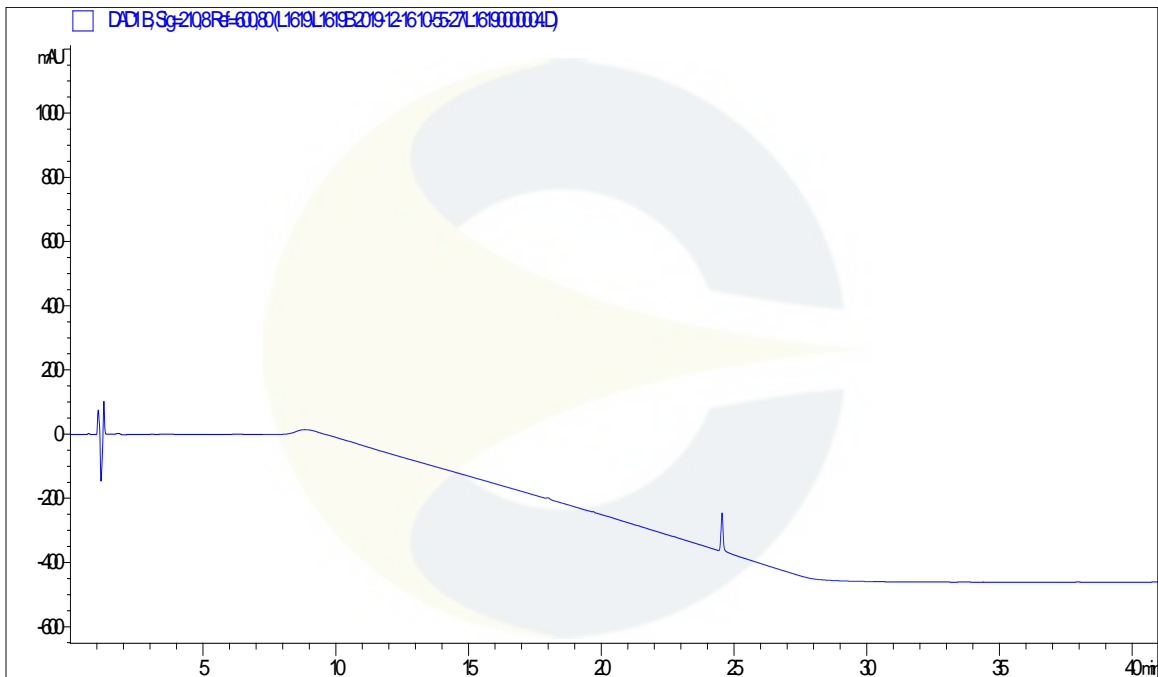
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UV SPECTRUM AT RT = 19.7 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

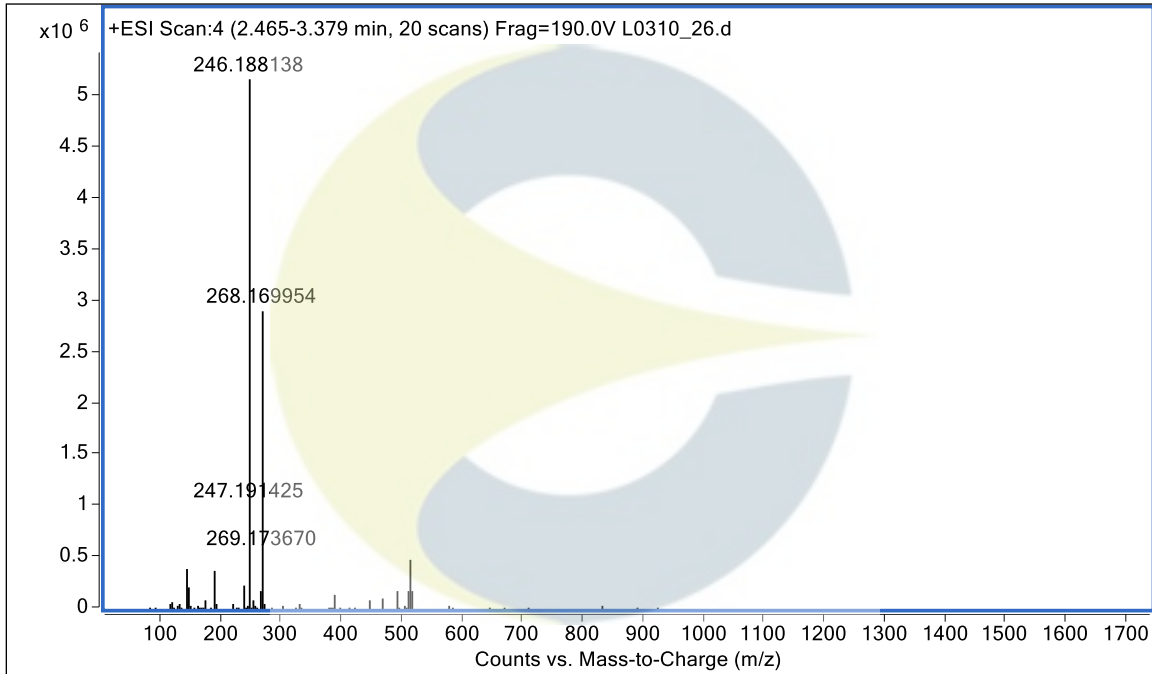


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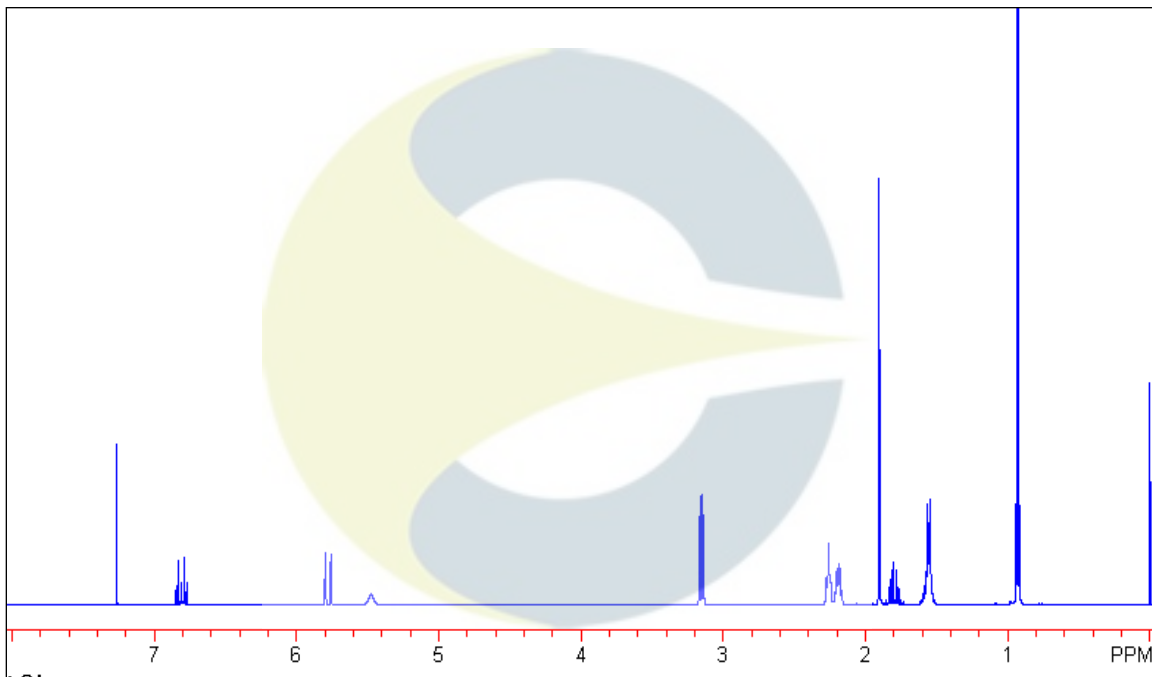
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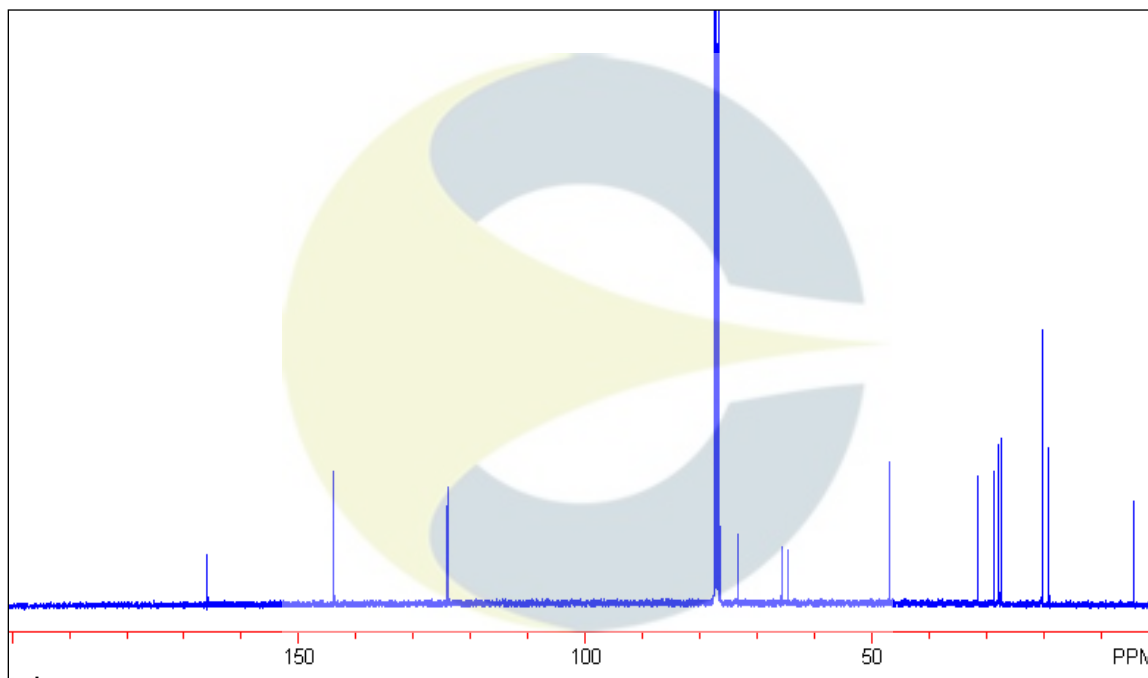
MASS SPECTRUM OF DODEC-2E-ENE-8,10-DIYNOIC ACID ISOBUTYLAMIDE (CDXA-10-7326)



¹H-NMR SPECTRUM OF DODEC-2E-ENE-8,10-DIYNOIC ACID ISOBUTYLAMIDE (CDXA-10-7326) IN CDCl₃



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¹³C-NMR SPECTRUM OF DODEC-2E-ENE-8,10-DIYNOIC ACID ISOBUTYLAMIDE (CDXA-10-7326) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	12/21/2010	New report
01	06/03/2015	Passed re-evaluation by HPLC, KF. Updated chemical structure, chemical name, expiration date, molecular weight, melting point, analytical conditions, Mass spectrum title, HPLC chromatogram title, and NMR spectrum titles
02	01/06/2020	Passed re-evaluation by HPLC and KF, updated expiration date, analytical results, and removed melting point

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