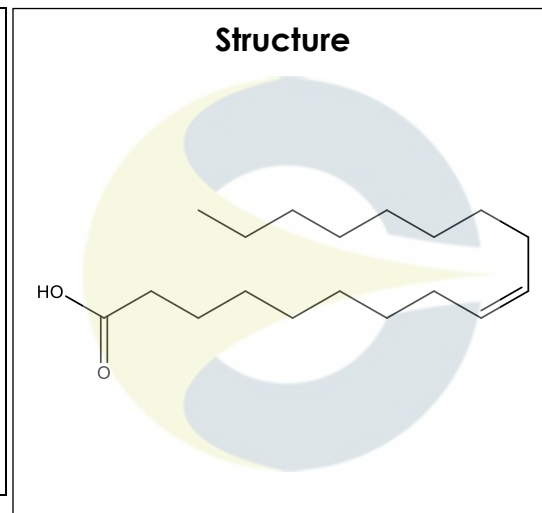


Certificate of Analysis

For Laboratory Use Only

PRODUCT NAME	Oleic acid
PART NUMBER	00015305
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00015305-EXF
REPORT NUMBER	CDXA-RSS-4716-02
SAMPLE NUMBER	CDXA-11-5339
DATE OF SAMPLE	09/16/2011
DATE OF RE-EVALUATION	10/20/2015 (1 st); 09/29/2021 (2 nd)
DATE OF REPORT	10/06/2021



CHEMICAL NAMES	(9Z)-9-Octadecenoic acid; 9-cis-Octadecenoic acid
CHEMICAL FORMULA	C ₁₈ H ₃₄ O ₂
MOLECULAR WEIGHT (MW)	282.46
CHEMICAL FAMILY	Fatty acids
CAS NUMBER	[112-80-1]
EC#(EINECS)	204-007-1
RTECS	RG2275000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	98.3%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Oil

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	09/2026 under the above conditions.

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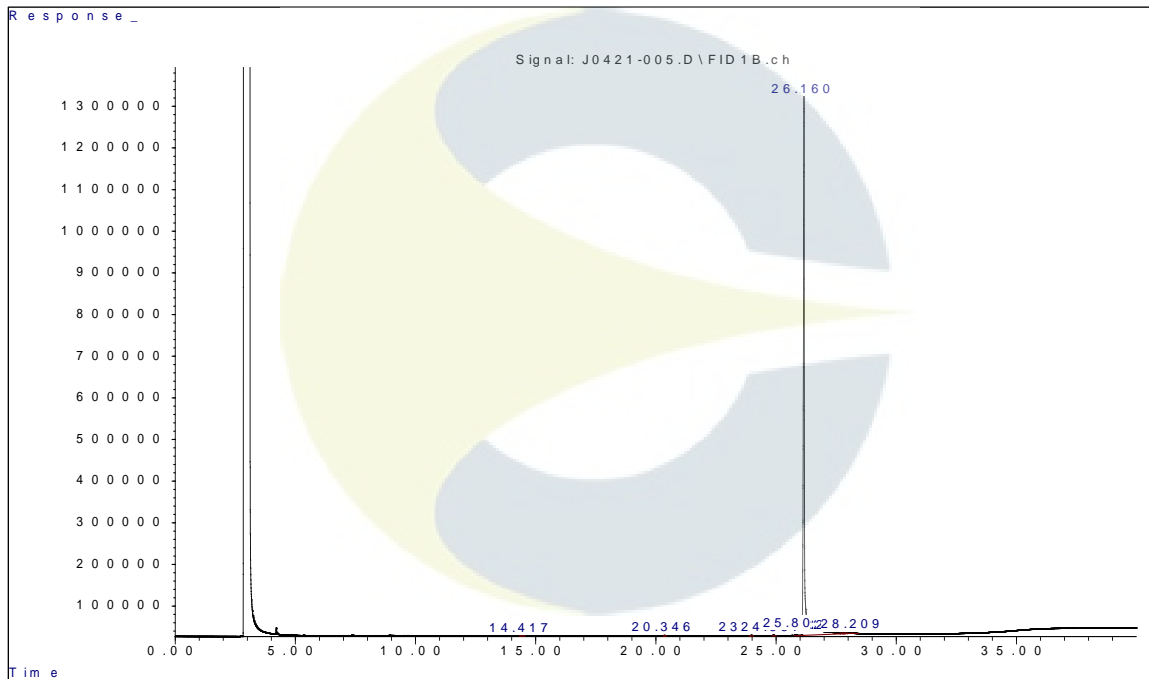
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ANALYTICAL CONDITIONS

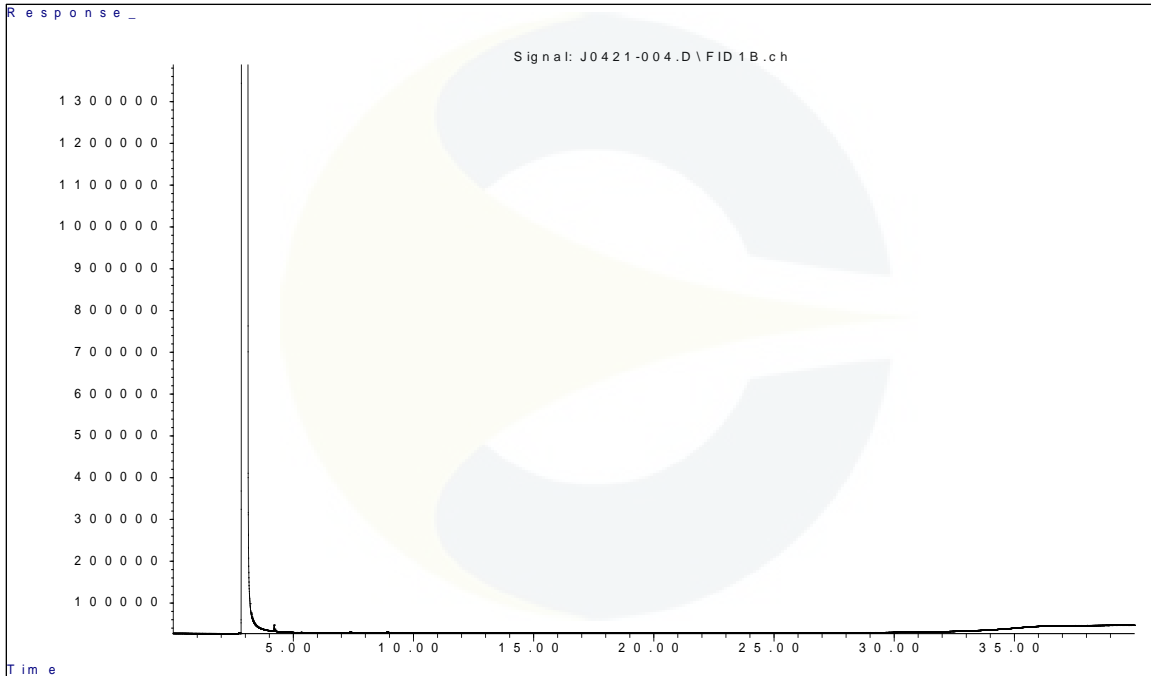
INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	300 °C
INJECTOR SPLIT RATIO	20:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	1.8 mg/mL in Methanol
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

GC CHROMATOGRAM OF OLEIC ACID (CDXA-11-5339)

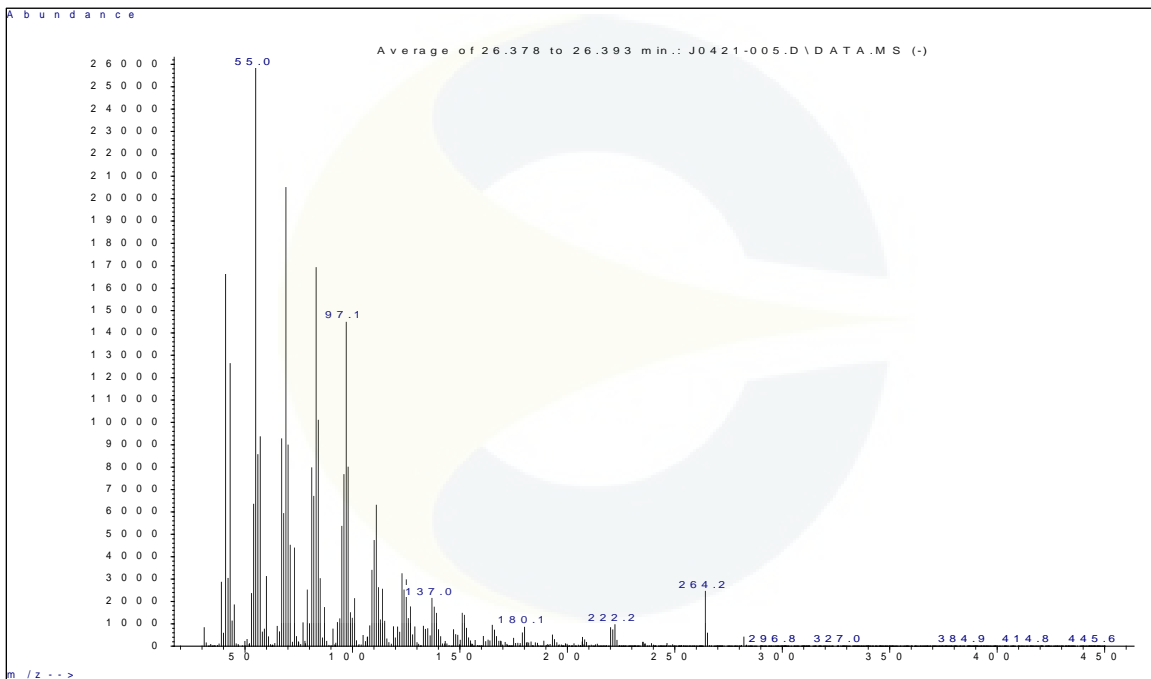


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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF OLEIC ACID (CDXA-11-5339)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/27/2011	New report
01	12/07/2015	Passed re-evaluation by GC-FID. Updated expiration date and standard type.
02	10/06/2021	Passed second re-evaluation by GC-FID/MS. Updated expiration date, analytical results, analytical conditions, chromatograms, spectrum, and expiration date. Removed melting point.

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