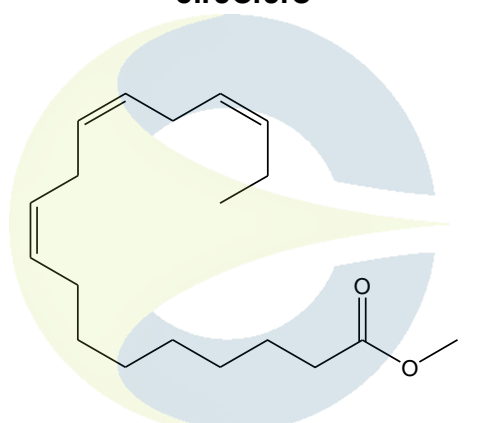


Certificate of Analysis
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PRODUCT NAME	Linolenic acid methylester	<div style="text-align: center;"> Structure  </div>
PART NUMBER	00012276	
STANDARD TYPE	Analytical Standard (AS)	
LOT NUMBER	00012276-Y5B	
REPORT NUMBER	CDXA-RSS-7755-01	
SAMPLE NUMBER	CDXP-17-00188	
DATE OF SAMPLE	11/15/2017	
DATE OF RE-EVALUATION	06/13/2022	
DATE OF REPORT	06/28/2022	

CHEMICAL NAMES	(Z,Z,Z)-9,12,15-Octadecatrienoic acid methyl ester; Methyl α -linolenate; Methyl linolenate; α -Linolenic acid methyl ester
CHEMICAL FORMULA	C ₁₉ H ₃₂ O ₂
MOLECULAR WEIGHT (MW)	292.46
CHEMICAL FAMILY	Fatty acids
CAS NUMBER	[301-00-8]
EC#(EINECS)	206-102-3
RTECS	NA

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	98.8%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Oil

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	06/2027 under the above conditions.

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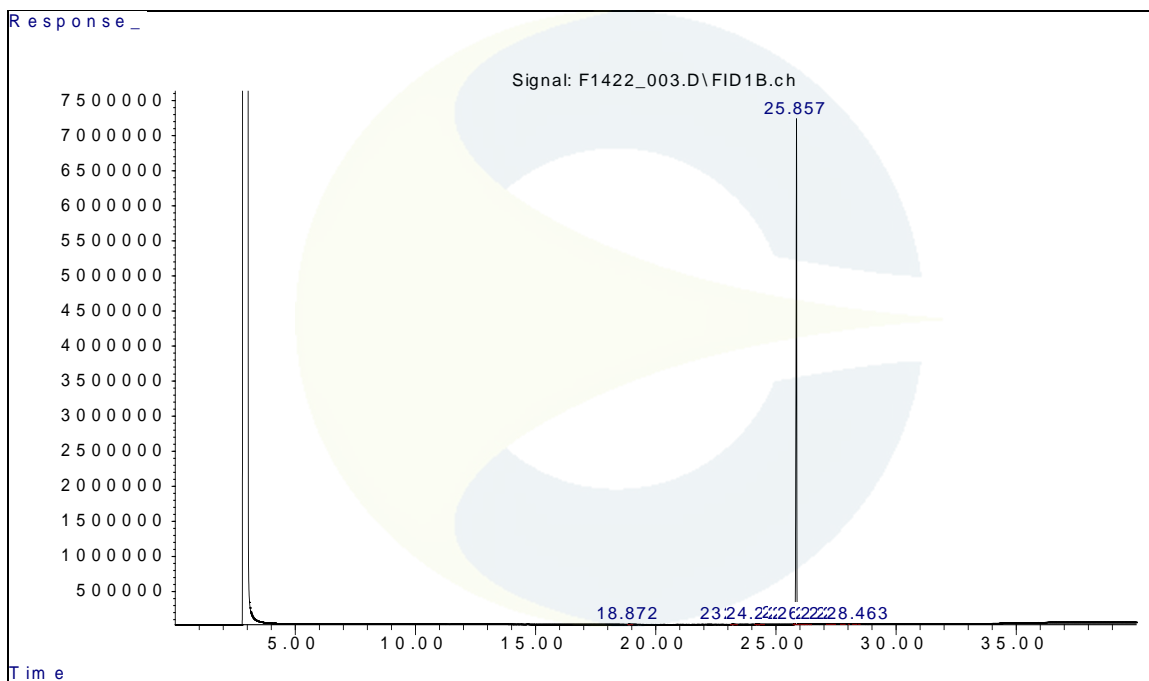
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ANALYTICAL CONDITIONS

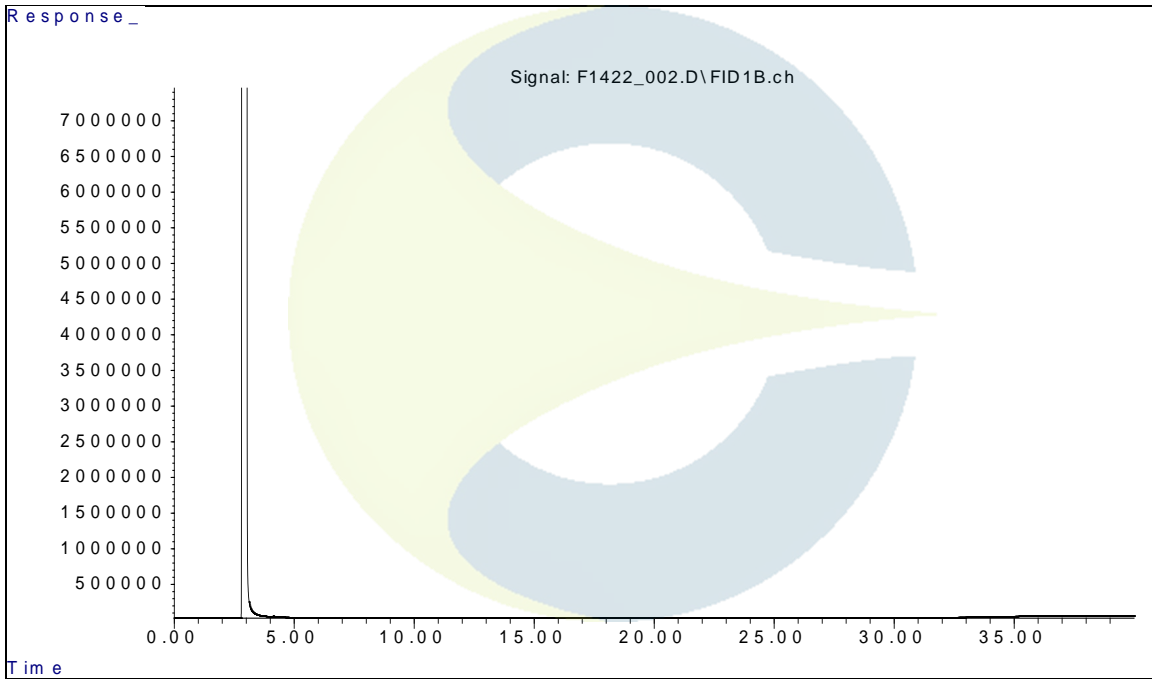
INSTRUMENT	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
COLUMN	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm
CARRIER GAS	Helium
COLUMN TEMP.	Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C. Hold at 340 °C for 5.0 minutes.
FLOW RATE	2.0 mL/minute
INJECTOR TEMP.	300 °C
INJECTOR SPLIT RATIO	20:1
INJECTION VOL.	1.0 µL
INJECTION CONC.	3.4 mg/mL in Methanol
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

GC CHROMATOGRAM OF LINOLENIC ACID METHYLESTER (CDXP-17-00188)

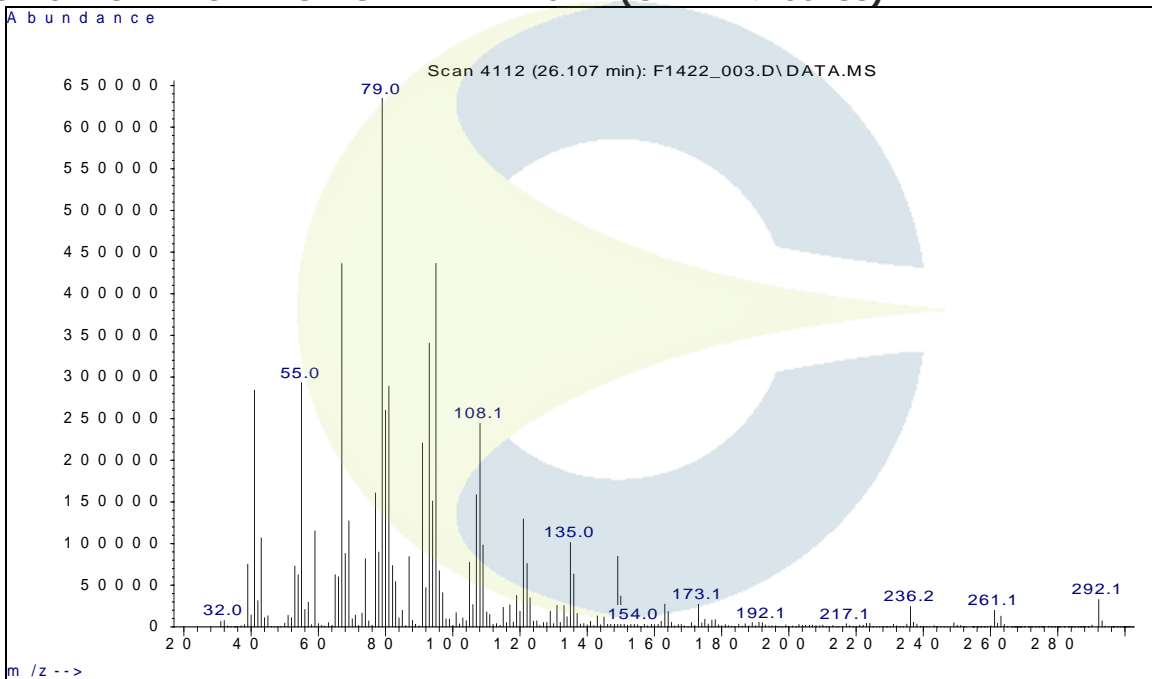


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MASS SPECTRUM OF LINOLENIC ACID METHYLESTER (CDXP-17-00188)



REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	11/29/2017	New report
01	06/28/2022	Passed re-evaluation by GC/MS. Updated expiration date, molecular weight, analytical conditions, chromatograms and results.

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