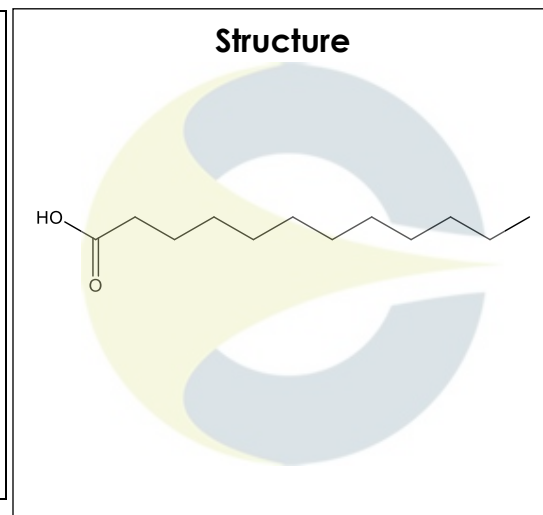


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PRODUCT NAME	Lauric acid
PART NUMBER	00012080
STANDARD TYPE	Analytical Standard (AS)
LOT NUMBER	00012080-011236
REPORT NUMBER	CDXA-RSS-7250-01
SAMPLE NUMBER	CDXA-16-011236
DATE OF SAMPLE	08/30/2016
DATE OF RE-EVALUATION	02/14/2023
DATE OF REPORT	03/09/2023



CHEMICAL NAMES	1-Dodecanoic acid; Dodecanoic acid; n-Dodecanoic acid; Vulvic acid;
CHEMICAL FORMULA	C ₁₂ H ₂₄ O ₂
MOLECULAR WEIGHT (MW)	200.32
CHEMICAL FAMILY	Fatty acids
CAS NUMBER	[143-07-7]
EC#(EINECS)	205-582-1
RTECS	OE9800000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	98.6%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	White powder

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	02/2028 under the above conditions.

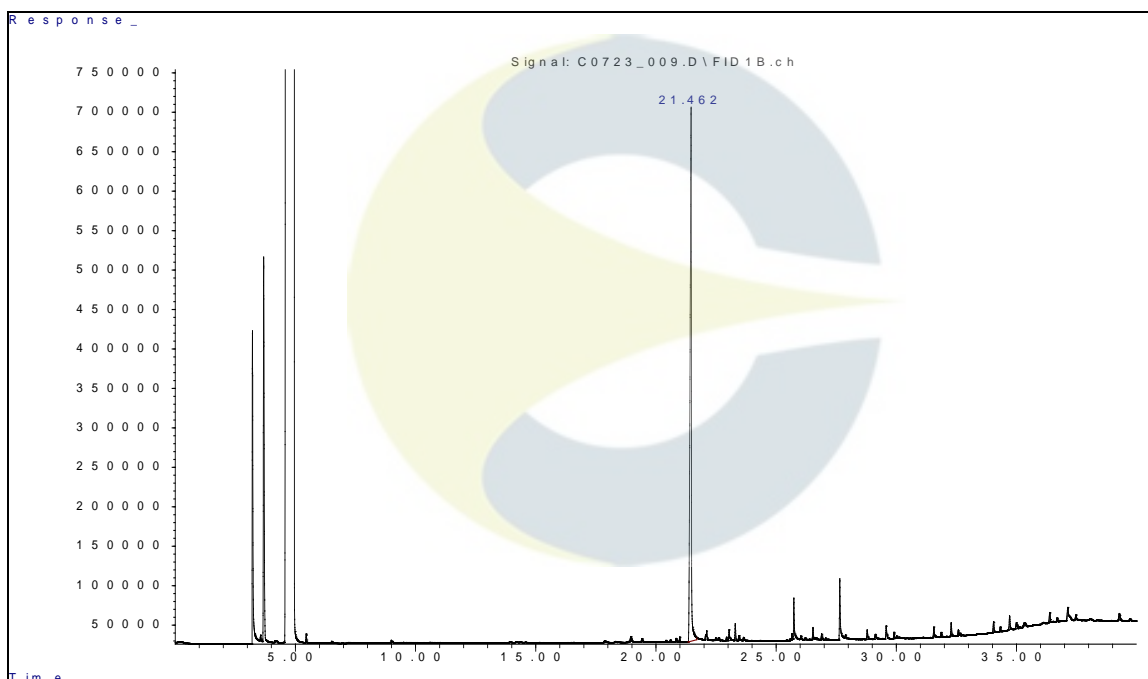
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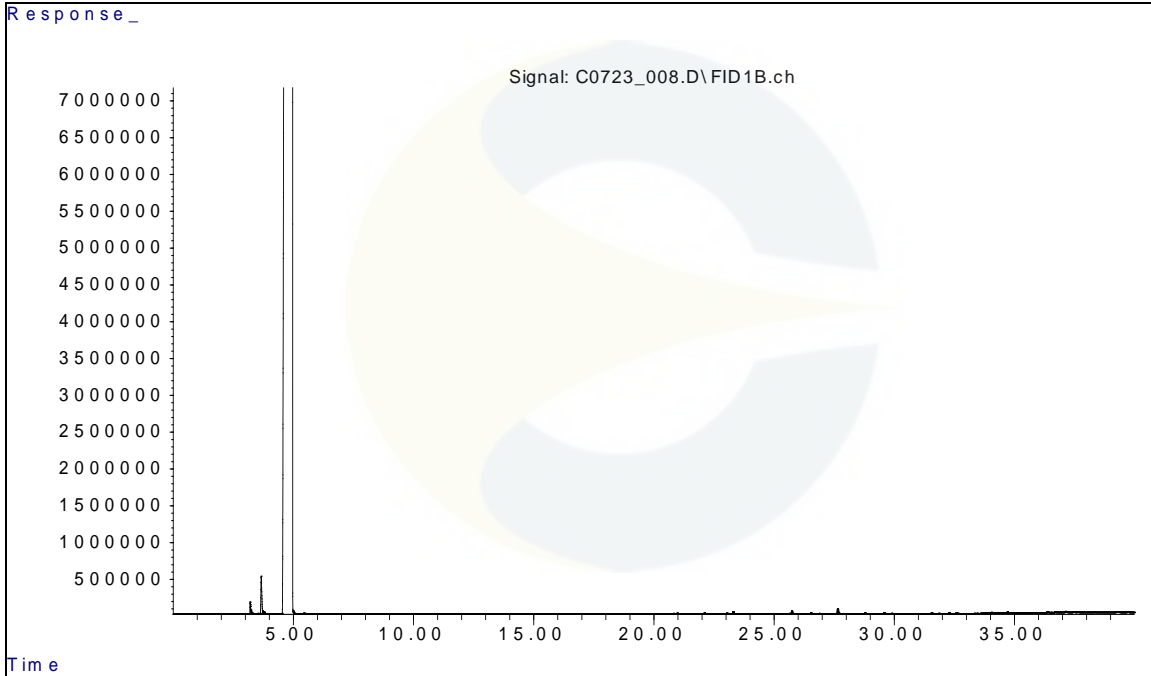
ANALYTICAL CONDITIONS

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.	1.1 mg/mL in Chloroform
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

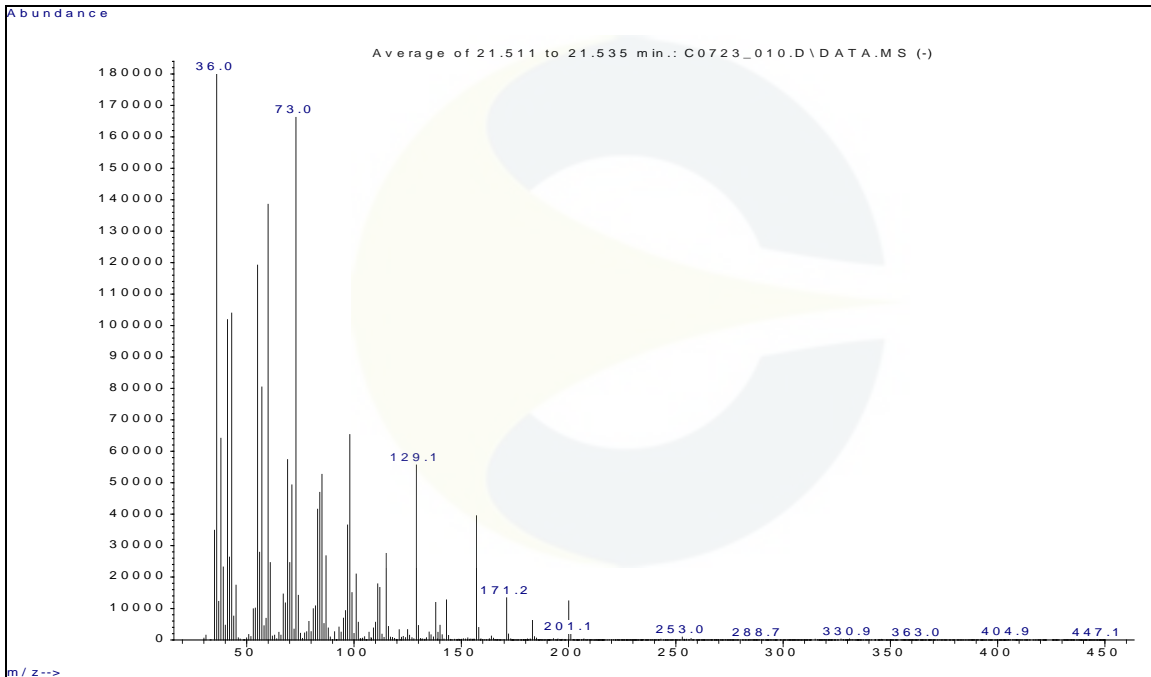
GC CHROMATOGRAM OF LAURIC ACID (CDXA-16-011236)


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GC CHROMATOGRAM OF DILUENT BLANK



MASS SPECTRUM OF LAURIC ACID (CDXA-16-011236)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	09/07/2016	New report.
01	03/09/2023	Passed reevaluation by GC. Updated results, chromatograms, analytical methods and conditions.

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