


Certificate of Analysis
For Laboratory Use Only

PRODUCT NAME	Arachidyl alcohol (Eicosanol)	<div style="text-align: center;"> Structure  </div>
PART NUMBER	00001970	
STANDARD TYPE	Analytical Standard (AS)	
LOT NUMBER	00001970-E01	
REPORT NUMBER	CDXA-RSS-2160-02	
SAMPLE NUMBER	CDXA-07-2543	
DATE OF SAMPLE	11/06/2007	
DATE OF RE-EVALUATION	09/18/2012(1 st); 09/15/2016(2 nd); 07/19/2021 (3 rd)	
DATE OF REPORT	08/06/2021	

CHEMICAL NAMES	Arachic alcohol; Arachidic alcohol; Eicosyl alcohol; <i>n</i> -Eicosanol; <i>n</i> -1-Eicosanol
CHEMICAL FORMULA	C ₂₀ H ₄₂ O
MOLECULAR WEIGHT (MW)	298.55
CHEMICAL FAMILY	Fatty alcohols
CAS NUMBER	[629-96-9]
EC#(EINECS)	211-119-4
RTECS	JX3785000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	95.5%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	White powder

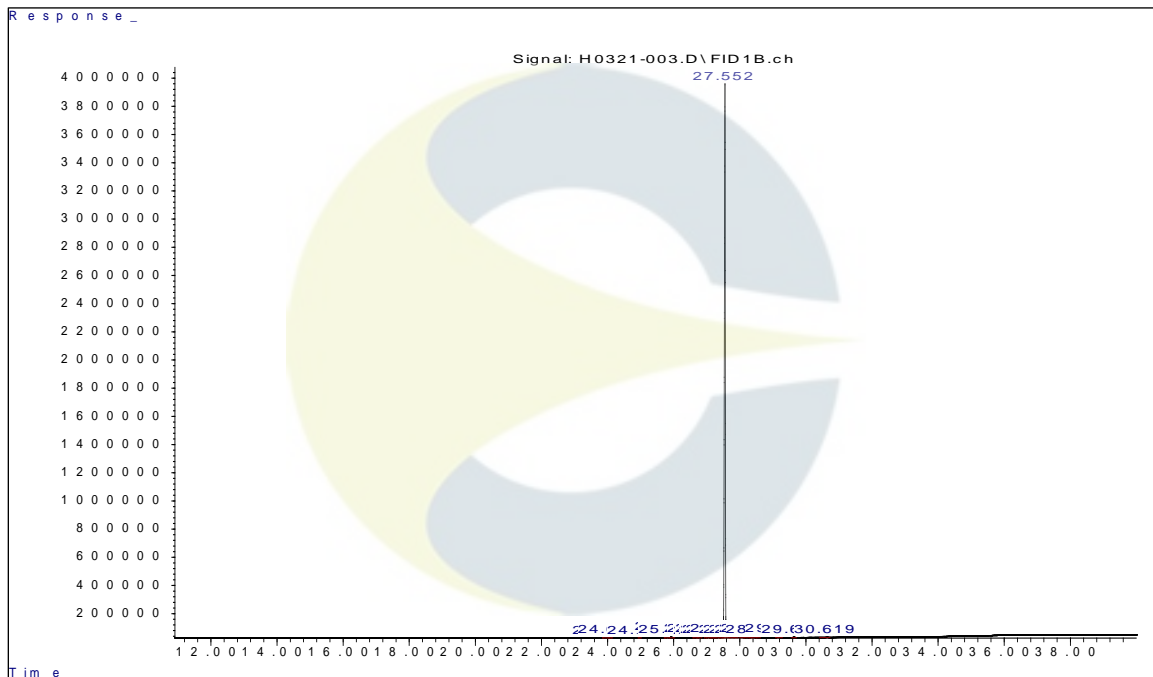
STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	07/2026 under the above conditions.

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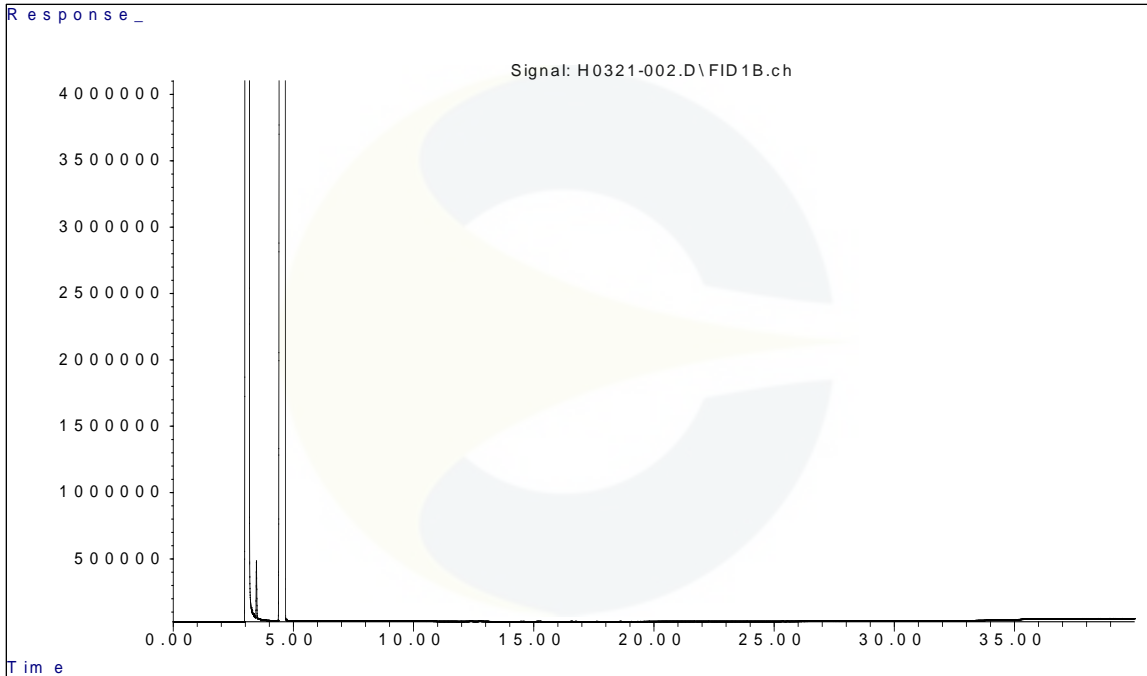
ANALYTICAL CONDITIONS

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.	1.8 mg/mL in Methanol: Chloroform (1:1)
DETECTION	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

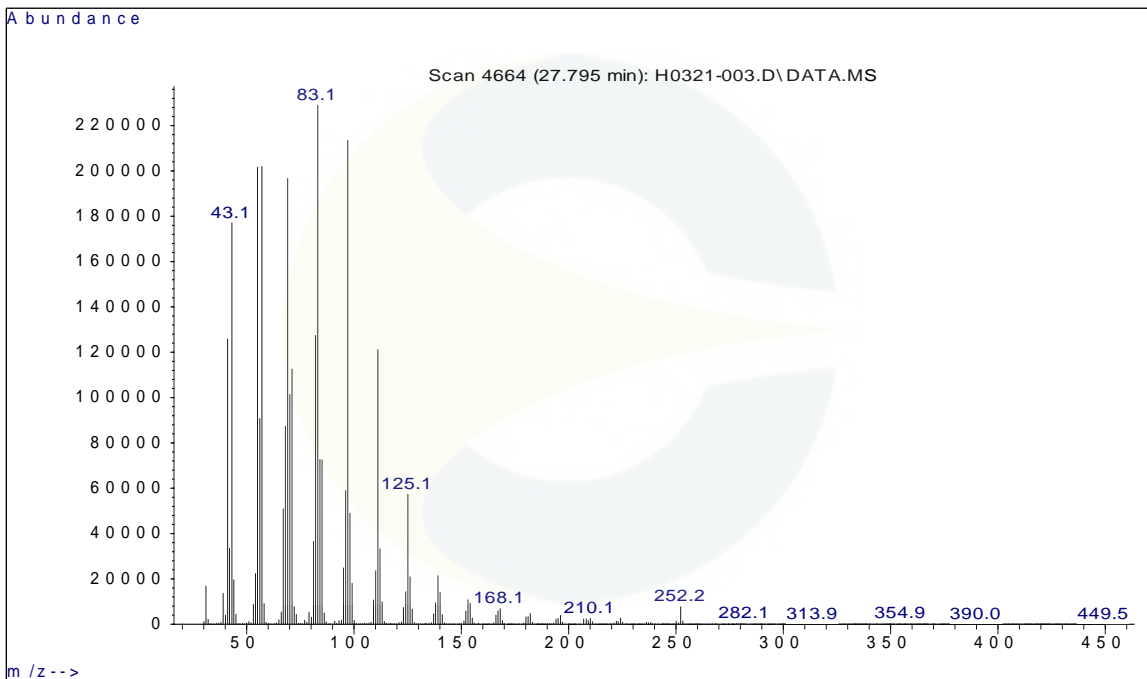
GC CHROMATOGRAM OF ARACHIDYL ALCOHOL (EICOSANOL) (CDXA-07-2543)


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MASS SPECTRUM OF ARACHIDYL ALCOHOL (EICOSANOL) (CDXA-07-2543)



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REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/12/2012	New report and first re-evaluation.
01	10/04/2016	Passed second re-evaluation by GC/FID. Updated expiration date.
02	08/06/2021	Passed third re-evaluation by GC-FID/MS. Updated expiration date, analytical results, analytical conditions, chromatograms, and spectrum. Added RTECS. Removed melting point.

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