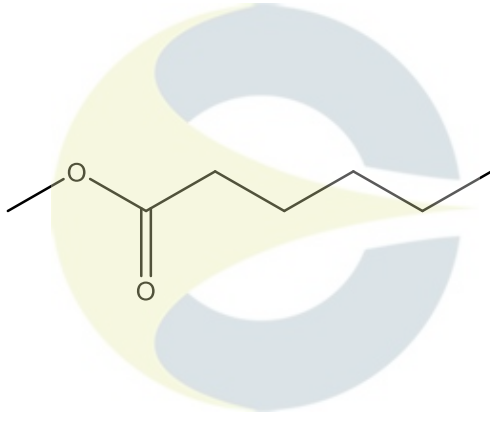


**Certificate of Analysis**

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<b>PRODUCT NAME</b>	Caproic acid methyl ester	<div style="text-align: center;"> <b>Structure</b>   </div>
<b>PART NUMBER</b>	00003106	
<b>STANDARD TYPE</b>	Analytical Standard (AS)	
<b>LOT NUMBER</b>	00003106-WPD	
<b>REPORT NUMBER</b>	CDXA-RSS-6305-02	
<b>SAMPLE NUMBER</b>	CDXA-14-6120	
<b>DATE OF SAMPLE</b>	09/30/2014	
<b>DATE OF RE-EVALUATION</b>	12/10/2018 (1 <sup>st</sup> ); 11/04/2022 (2 <sup>nd</sup> )	
<b>DATE OF REPORT</b>	11/11/2022	

<b>CHEMICAL NAMES</b>	Hexanoic acid methyl ester; Methyl caproate; Methyl hexanoate
<b>CHEMICAL FORMULA</b>	C <sub>7</sub> H <sub>14</sub> O <sub>2</sub>
<b>MOLECULAR WEIGHT (MW)</b>	130.18
<b>CHEMICAL FAMILY</b>	Fatty acids
<b>CAS NUMBER</b>	[106-70-7]
<b>EC#(EINECS)</b>	203-425-1
<b>RTECS</b>	MO8401400

**ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	RESULT
GC	0.700.10.2.METH140	≥ 75%	99.9%
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms
Appearance	NA	NA	Liquid

**STORAGE CONDITIONS**

<b>STORAGE</b>	+4 °C in a dry place.
<b>EXPIRATION DATE</b>	11/2027 under the above conditions.

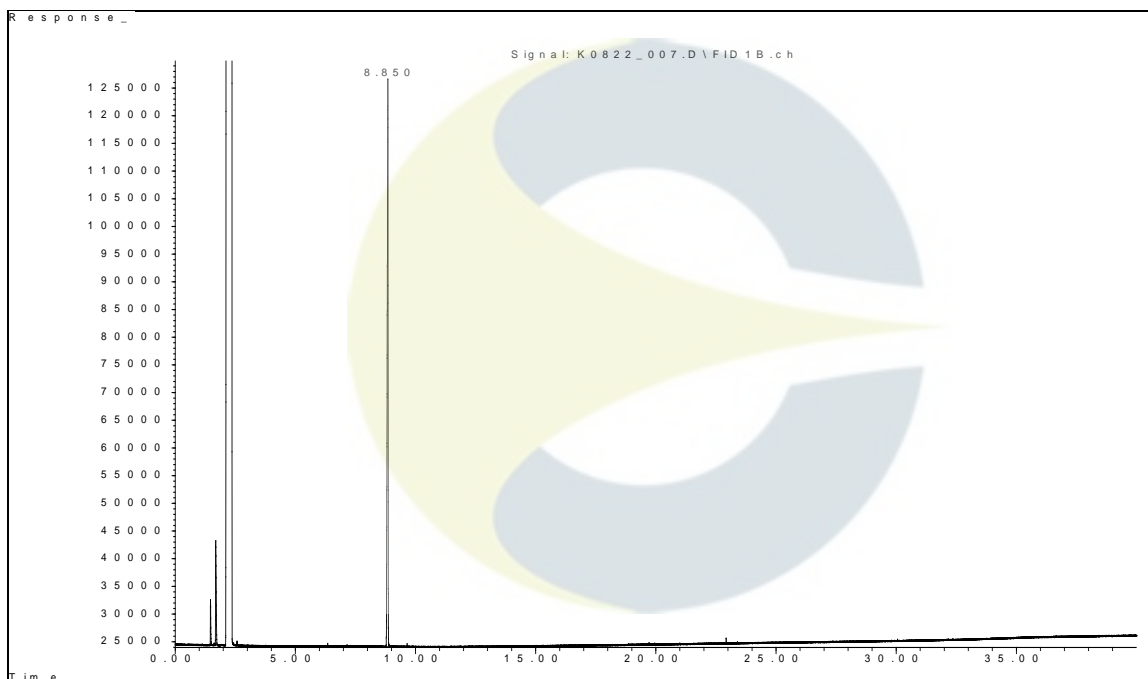
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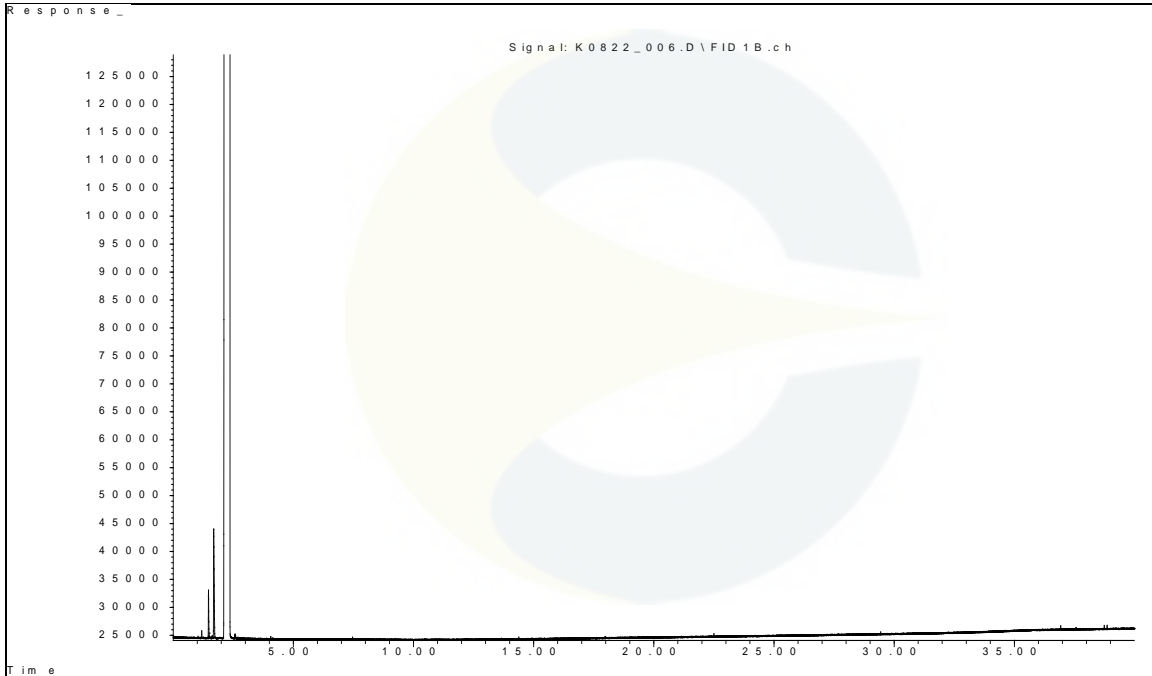
**ANALYTICAL CONDITIONS**

<b>INSTRUMENT</b>	AGILENT 7890B WITH FLAME IONIZATION DETECTOR (FID) AND AGILENT 5977B MASS SELECTIVE DETECTOR (MSD)
<b>COLUMN</b>	Phenomenex Zebron ZB-5plus, 30 m x 0.32 mm x 0.25 µm. One output connected to an Agilent Deactivated Fused Silica Retention Gap 3m x 0.18 mm ID to FID. The other outlet from the splitter connected to an Agilent Deactivated Fused Silica Retention Gap 10 m x 0.18 mm ID to MSD.
<b>CARRIER GAS</b>	Helium
<b>COLUMN TEMP.</b>	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.
<b>FLOW RATE</b>	2.0 mL/minute
<b>INJECTOR TEMP.</b>	300 °C
<b>INJECTOR SPLIT RATIO</b>	20:1
<b>INJECTION VOL.</b>	1.0 µL
<b>INJECTION CONC.</b>	2.6 mg/mL in Chloroform
<b>DETECTION</b>	FID (300 °C) & MSD (Transfer line 280 °C, Source 230 °C, Quad 150 °C)

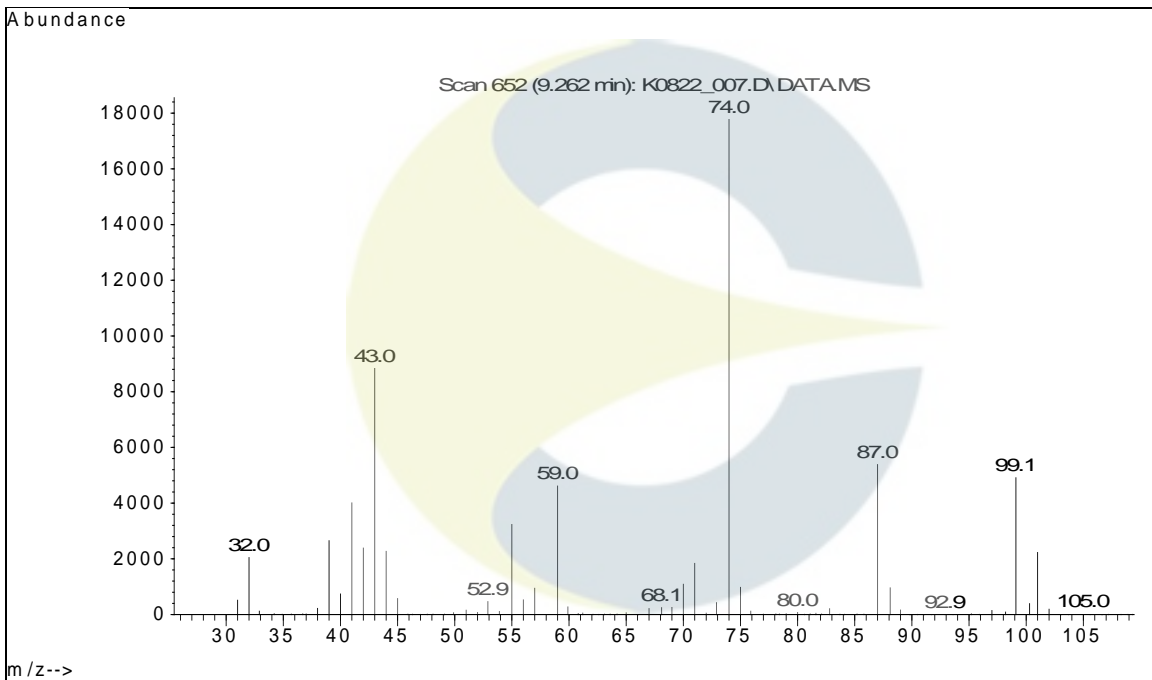
**GC CHROMATOGRAM OF CAPROIC ACID METHYL ESTER (CDXA-14-6120)**


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**GC CHROMATOGRAM OF DILUENT BLANK**



**MASS SPECTRUM OF CAPROIC ACID METHYL ESTER (CDXA-14-6120)**



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**REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	11/26/2014	New report
01	01/10/2019	Passed first re-evaluation by GC/MS. Updated analytical method, conditions, chromatograms, results, and expiration date. Removed melting point.
02	11/11/2022	Passed second re-evaluation by GC/MS. Updated analytical method, conditions, chromatograms, results, and expiration date.

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