

Certificate of Analysis

Diisopropylamine Dichloroacetate (DADA)

5-[(3aS,4S,6aR)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl]pentanoic acid

Compound : DADA
Lot number : KC-DADA-01
Analysis date : 2025-06-02
Purity % : 99.78%
Method : HPLC-MS

Client : Kimera Chems
Kimerachems.co

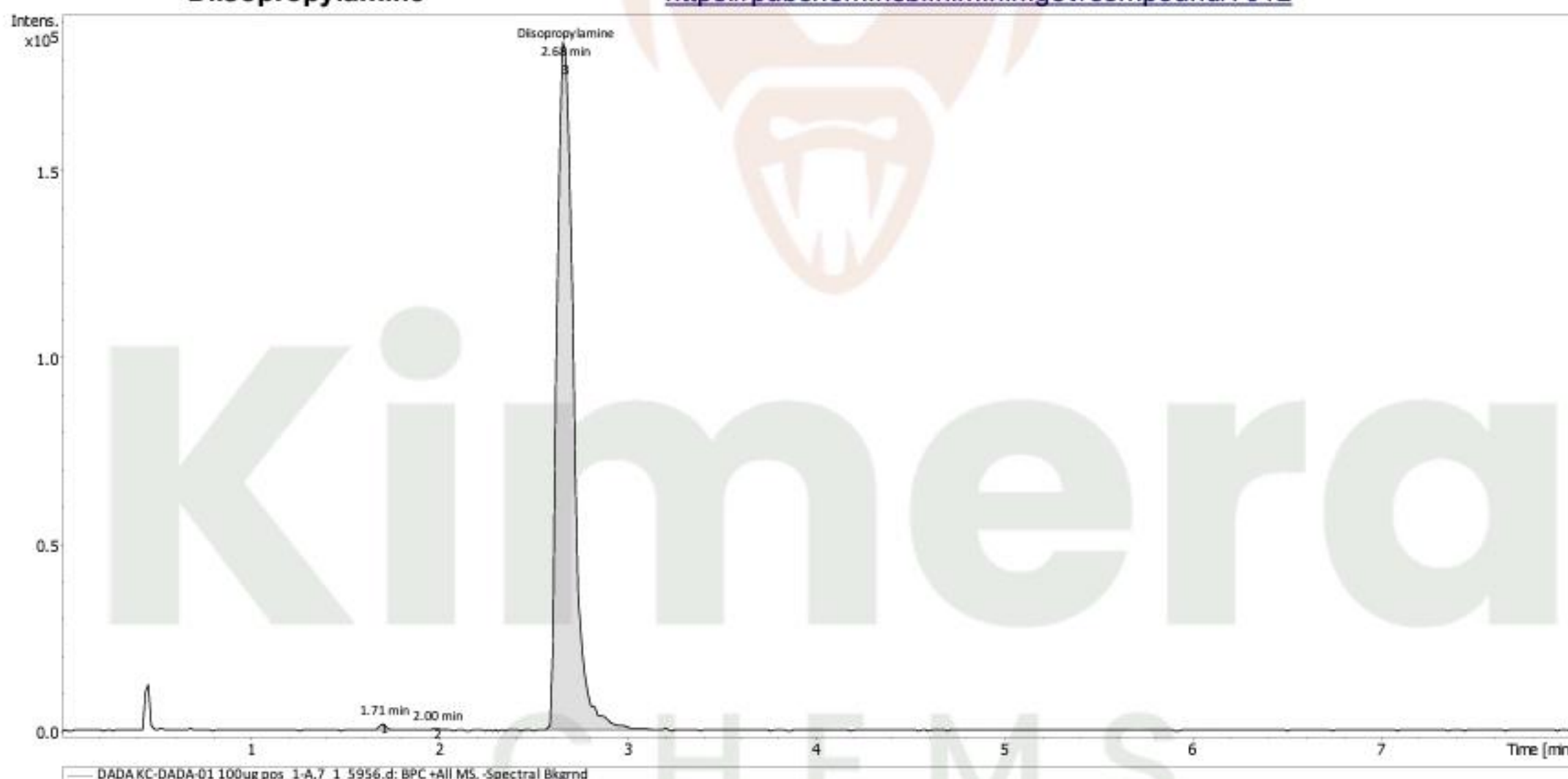
This is a two part COA because the two compounds, Diisopropylamine and Dichloroacetate, cannot be measured using the same methods.

PubChem CID : 12617
<https://pubchem.ncbi.nlm.nih.gov/compound/12617>

High Performance Liquid Chromatography (HPLC) Mass Spectrometry (MS) – Purity Test

Diisopropylamine

<https://pubchem.ncbi.nlm.nih.gov/compound/7912>



PEAK LIST			
	Time (min)	Area	%Area
1	1.71	3.71E+03	0.33
2	2.00	1.44E+03	0.13
3	2.68	1.13E+06	99.55

Number of detected peaks: 3

Diisopropylamine

See overall purity on last page

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
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2025-06-03

Diisopropylamine Dichloroacetate (DADA)

PubChem CID : 12617

<https://pubchem.ncbi.nlm.nih.gov/compound/12617>

Mass Spectrometry (MS) – Identity Test

Diisopropylamine

<https://pubchem.ncbi.nlm.nih.gov/compound/7912>

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 101.12 Da

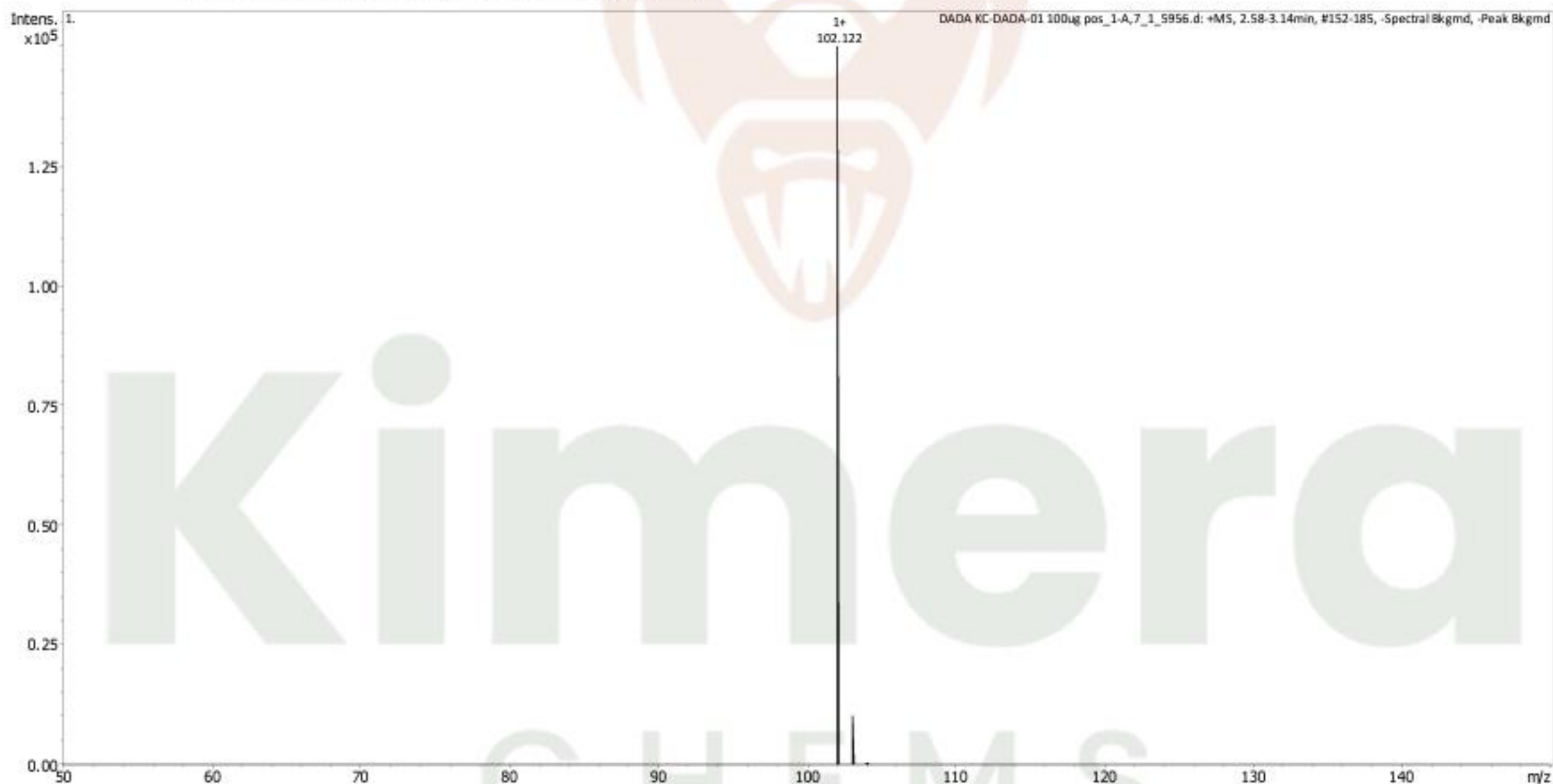
Measured monoisotopic mass : 101.12 Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded Diisopropylamine MS spectrum



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Diisopropylamine Dichloroacetate (DADA)

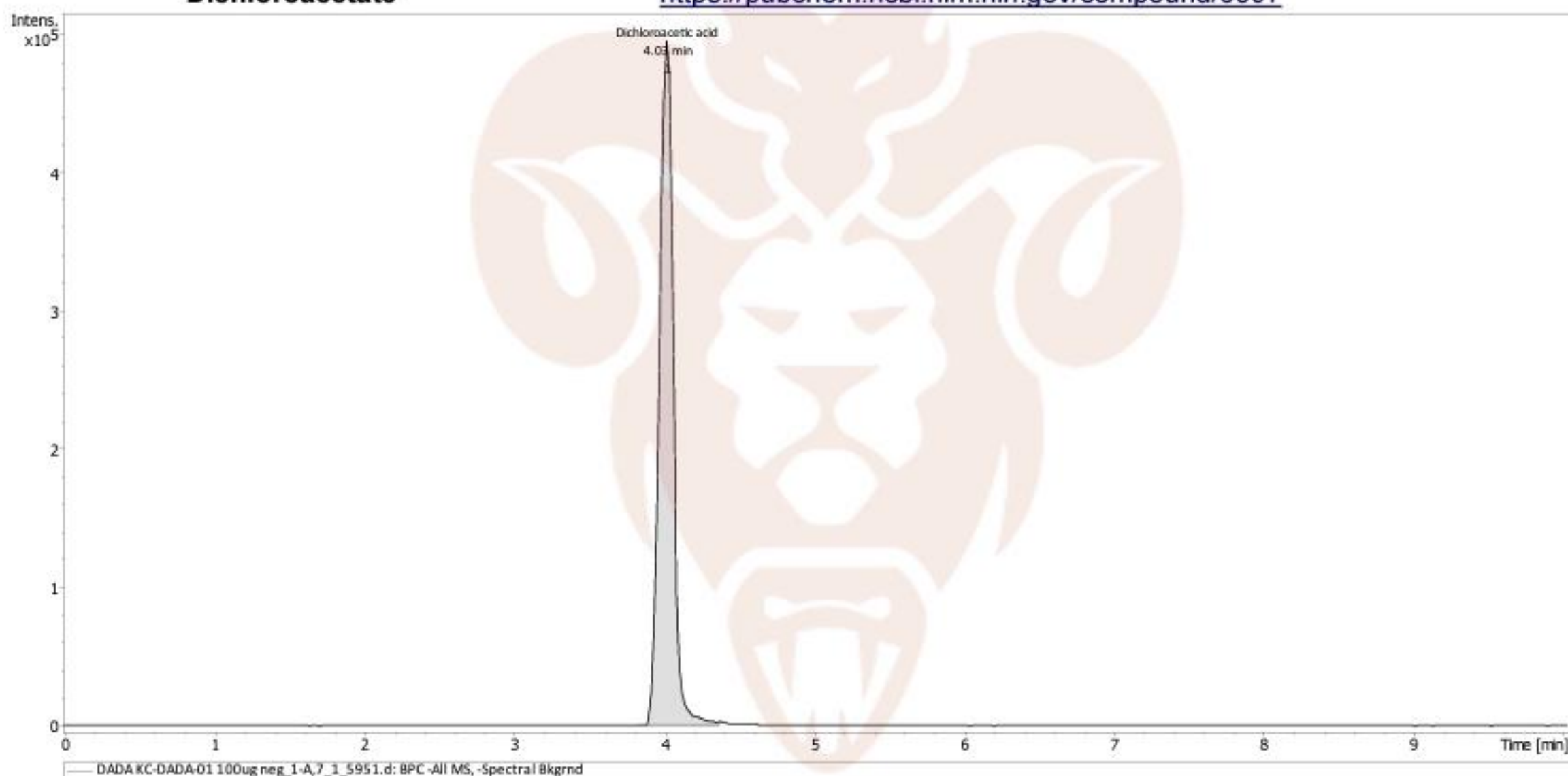
PubChem CID : 12617

<https://pubchem.ncbi.nlm.nih.gov/compound/12617>

High Performance Liquid Chromatography (HPLC) Mass Spectrometry (MS) – Purity Test

Dichloroacetate

<https://pubchem.ncbi.nlm.nih.gov/compound/6597>



PEAK LIST			
	Time (min)	Area	%Area
1	4.03	3.17E+06	100.00

Number of detected peaks: 1

Dichloroacetate

See overall purity below

Compound	Purity
Diisopropylamine	99.55
Dichloroacetate	100.00

Average Purity 99.78

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2025-06-03

Diisopropylamine Dichloroacetate (DADA)

PubChem CID : 12617

<https://pubchem.ncbi.nlm.nih.gov/compound/12617>

Mass Spectrometry (MS) – Identity Test

Dichloroacetate

<https://pubchem.ncbi.nlm.nih.gov/compound/6597>

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 127.94 Da

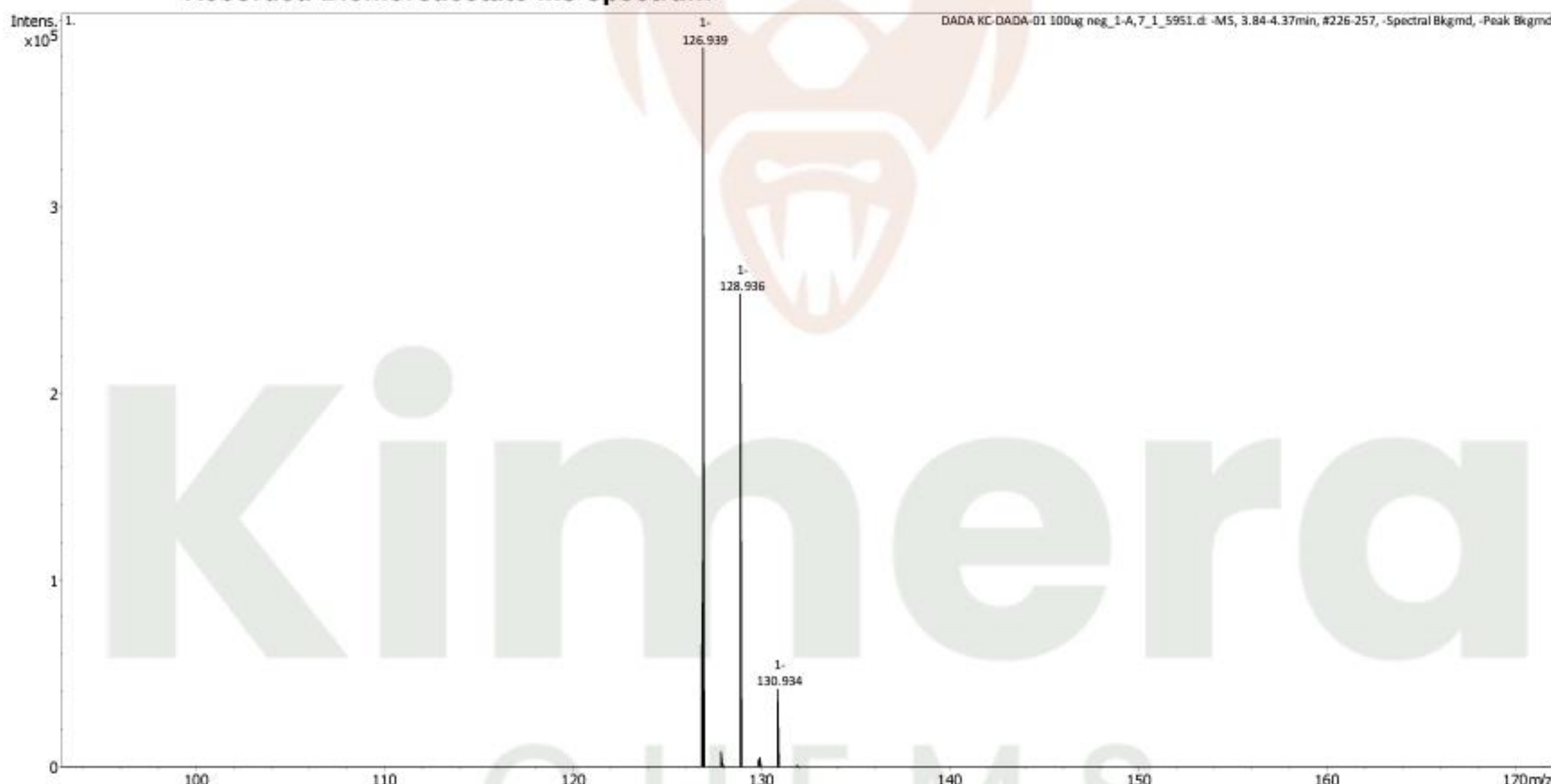
Measured monoisotopic mass : 127.94 Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded Dichloroacetate MS spectrum



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