

Certificate of Analysis

Mirogabalin Besylate

2-[(1R,5S,6S)-6-(aminomethyl)-3-ethyl-6-bicyclo[3.2.0]hept-3-enyl]acetic acid; benzenesulfonic acid

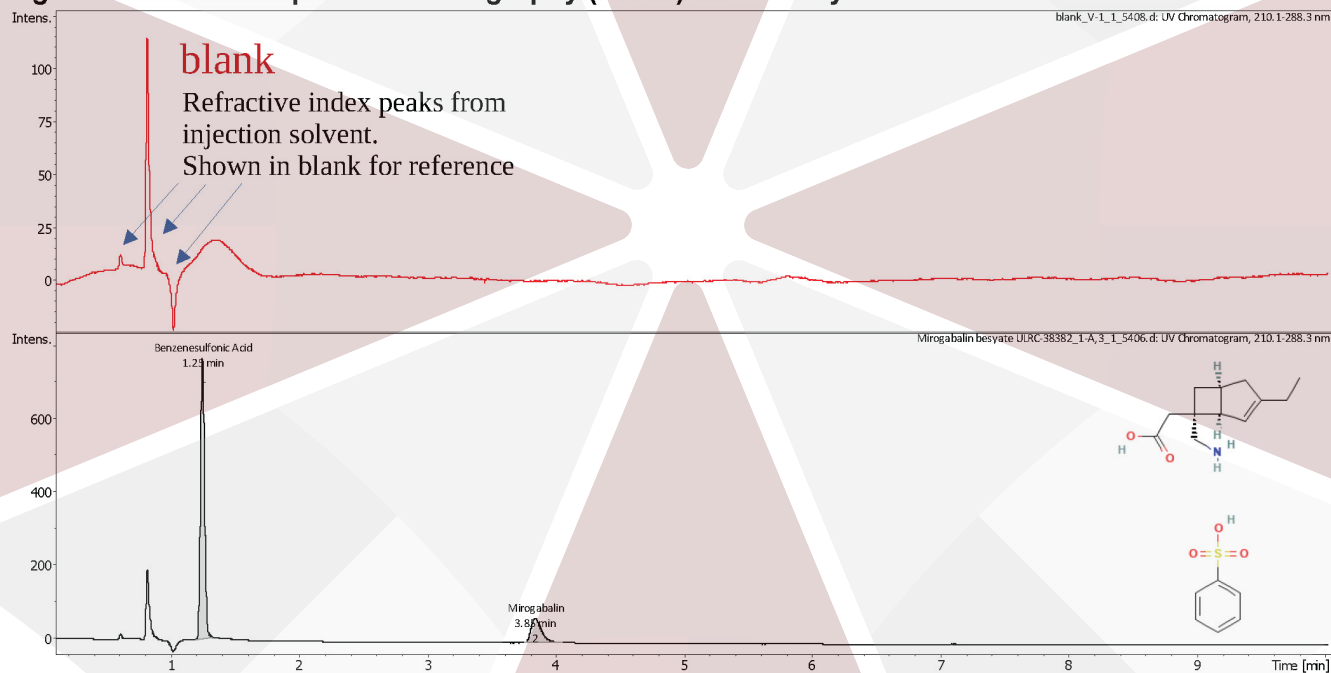
Compound : Mirogabalin Besylate
Lot number : ULRC-38382
Analysis date : 2025-05-08
Purity % : 100.00%
Method : HPLC-UV-MS

Client : UMBRELLA.us
3280 E Hemisphere Loop
Tucson, Arizona 85706

PubChem CID: 81689826

<https://pubchem.ncbi.nlm.nih.gov/compound/81689826>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST		Number of detected peaks: 2		
	Time (min)	Area	%Area	
1	1.25	1.63E+03	81.53	Besylate
2	3.85	3.68E+02	18.47	Mirogabalin
Overall purity			100.00	

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com



2025-05-09

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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Mirogabalin

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

Expected monoisotopic mass : 209.14 Da

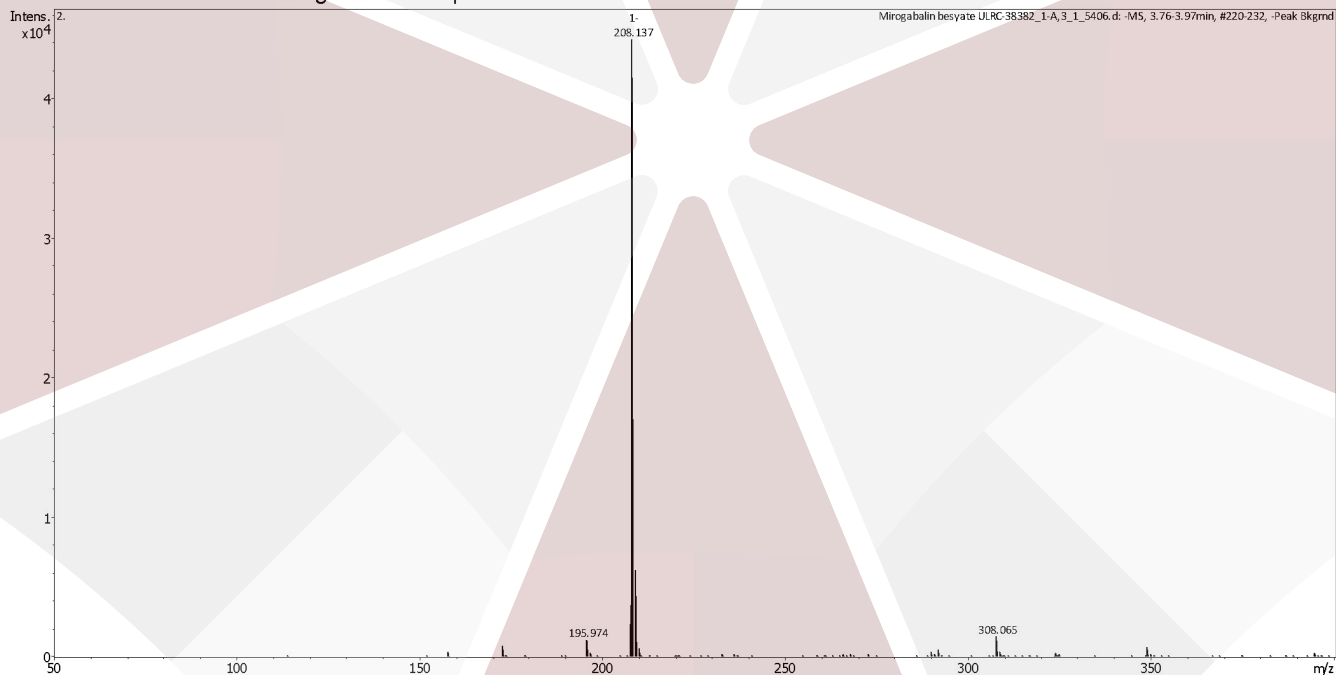
Measured monoisotopic mass : 209.14 Da

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 Mirogabalin MS spectrum



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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Besylic acid (Besylate)

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

Expected monoisotopic mass : 158.00 Da

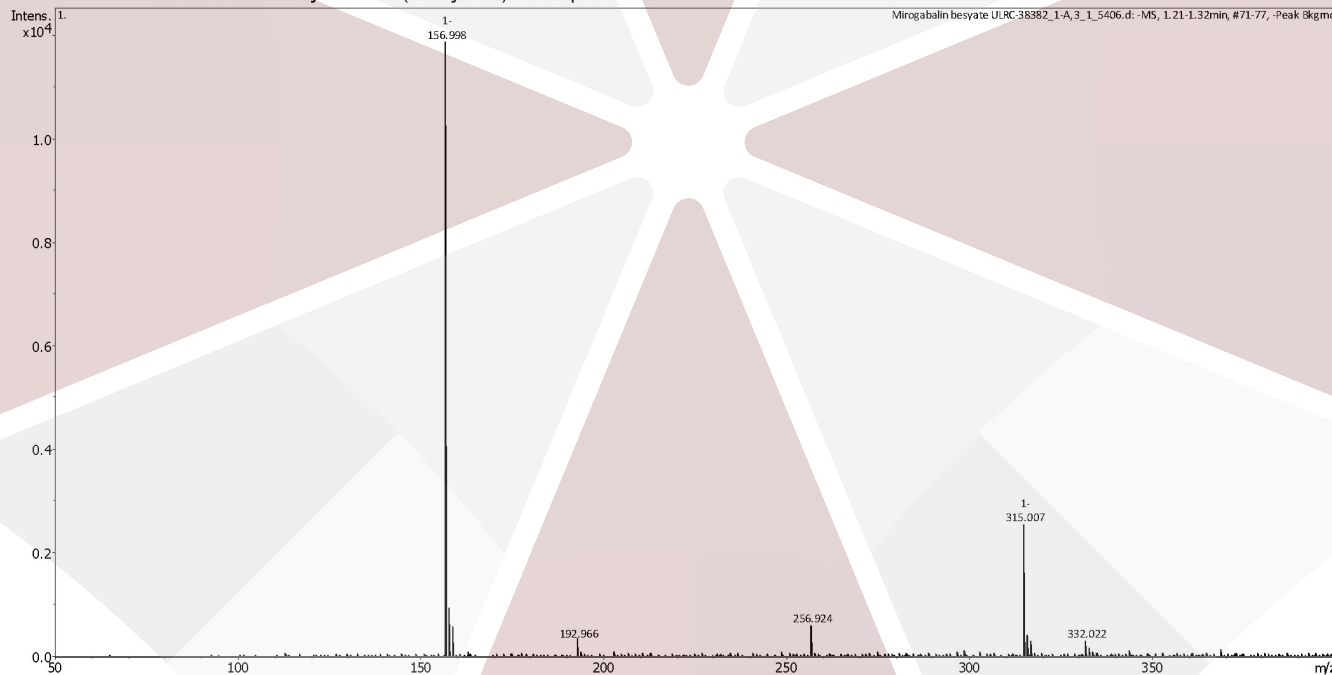
Measured monoisotopic mass : 158.00 Da

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 Besylic acid (Besylate) MS spectrum



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2025-05-09