MZ Biolabs
1635 E 18th St
Tucson, AZ 85719
contact@mzbiolabs.com
www.mzbiolabs.com

Certificate of Analysis

Melanotan I 10mg

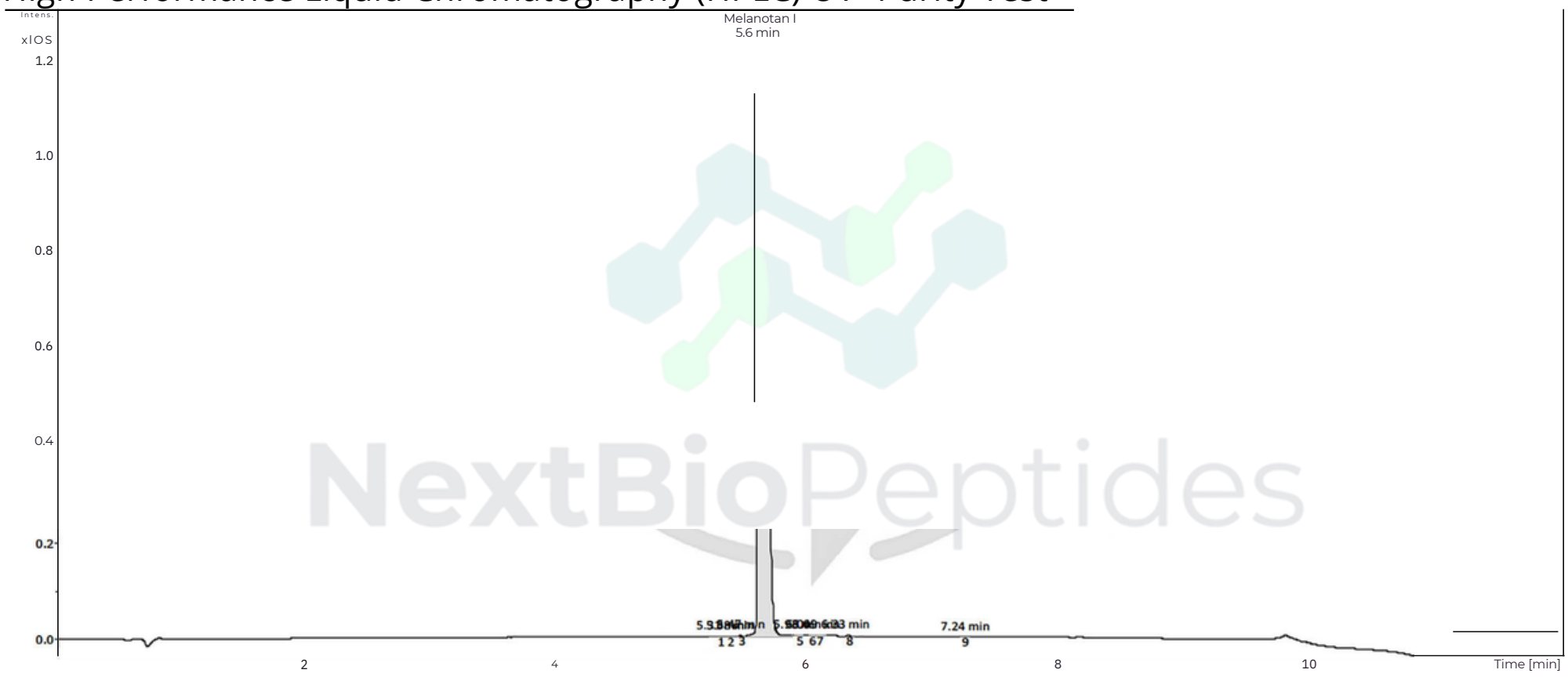
Ac-Ser-Tyr-Ser-Nle-Glu-His-0-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2

Compound	Melanotan I
Lot number	: MP831 vial 2
Analysis date	: 2024-09-03
Purity%	: 99.83%
Method	: HPLC-UV-MS

Client: NextBioPeptides
nextbiopeptides.com

PubChem CID: 16154396
https:/ pubc hem. ncbi. nlm. nih. gov/compound/16154396

High Performance Liquid Chromatography (HPLC) UV -Purity Test



Meianofan•i MP831 rZ 1-0,4_1 5336.d: UV Chromatogram, 210.2-21s9.8 nm

PEAK LIST Number of detected peaks: 9

	Time (min)	%Area	Area
1	5.31	0.05	3.28E+02
2	5.38	0.02	1.18E+02
3	*5.47*	0.01	8.51E +01
4	5.63	99.83	6.23E+05
5	5.93	0.01	8.38E+01
6	6.04	0.01	4.00E+01
7	6.09	0.04	2.35E+02
8	6.33	0.01	4.54E+01
9	7.24	0.02	1.06E+02

Melanotan I

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

IC
2024-09-11

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers. These are not normally detected using UV and are not considered impurities.

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Melanotan I 10 mg

Ac-Ser-Tyr-Ser-Nle-Glu-His-D-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2

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https://pubchem.ncbi.nlm.nih.gov/compound/16154396

Mass Spectrometry (MS) – Identity Test

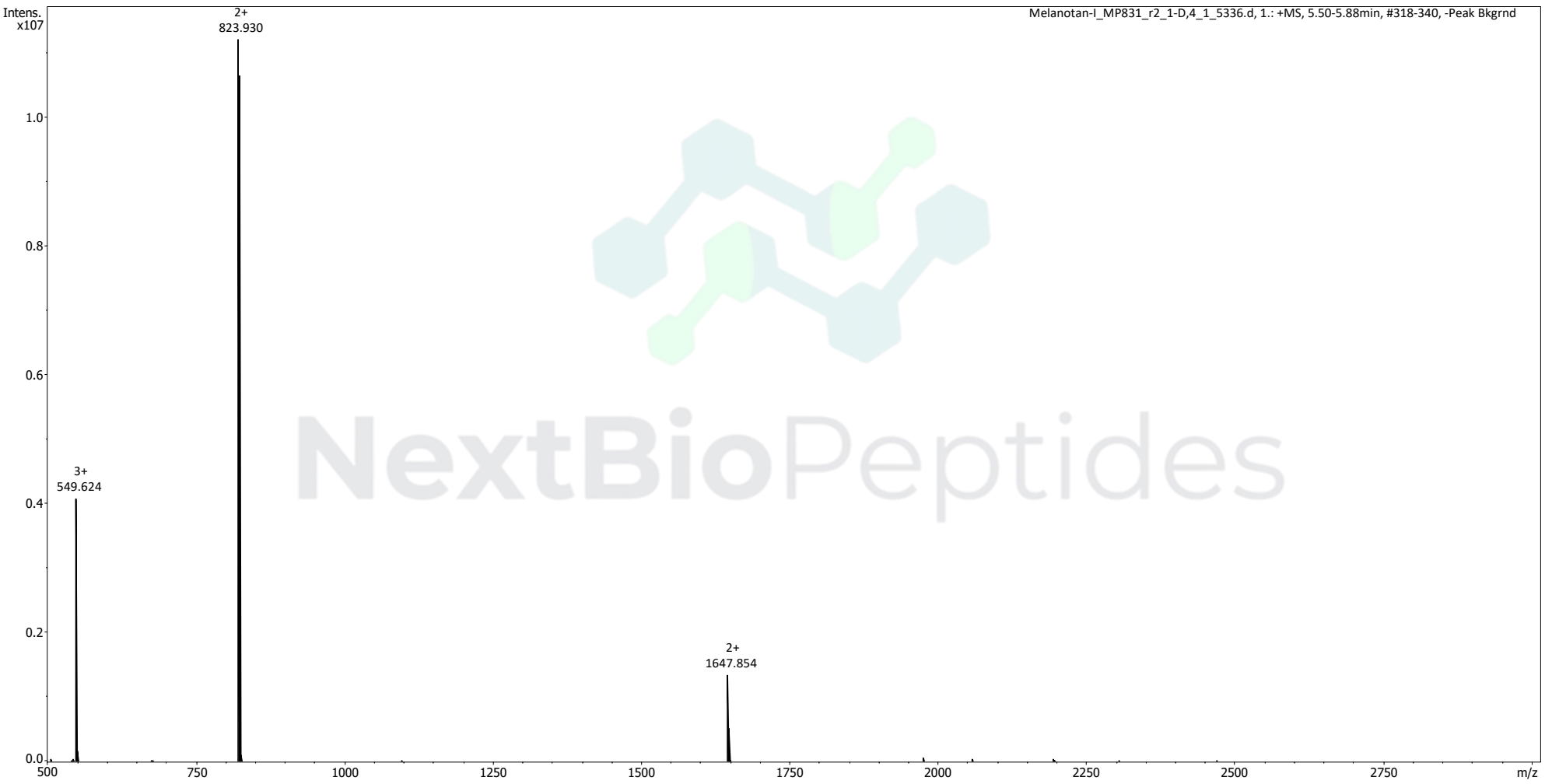
Identity confirmed using HPLC-MS
Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass :	1645.84	Da
Measured monoisotopic mass :	1645.86	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 MS spectrum



NextBioPeptides

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
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2024-09-11