MZ Biolabs
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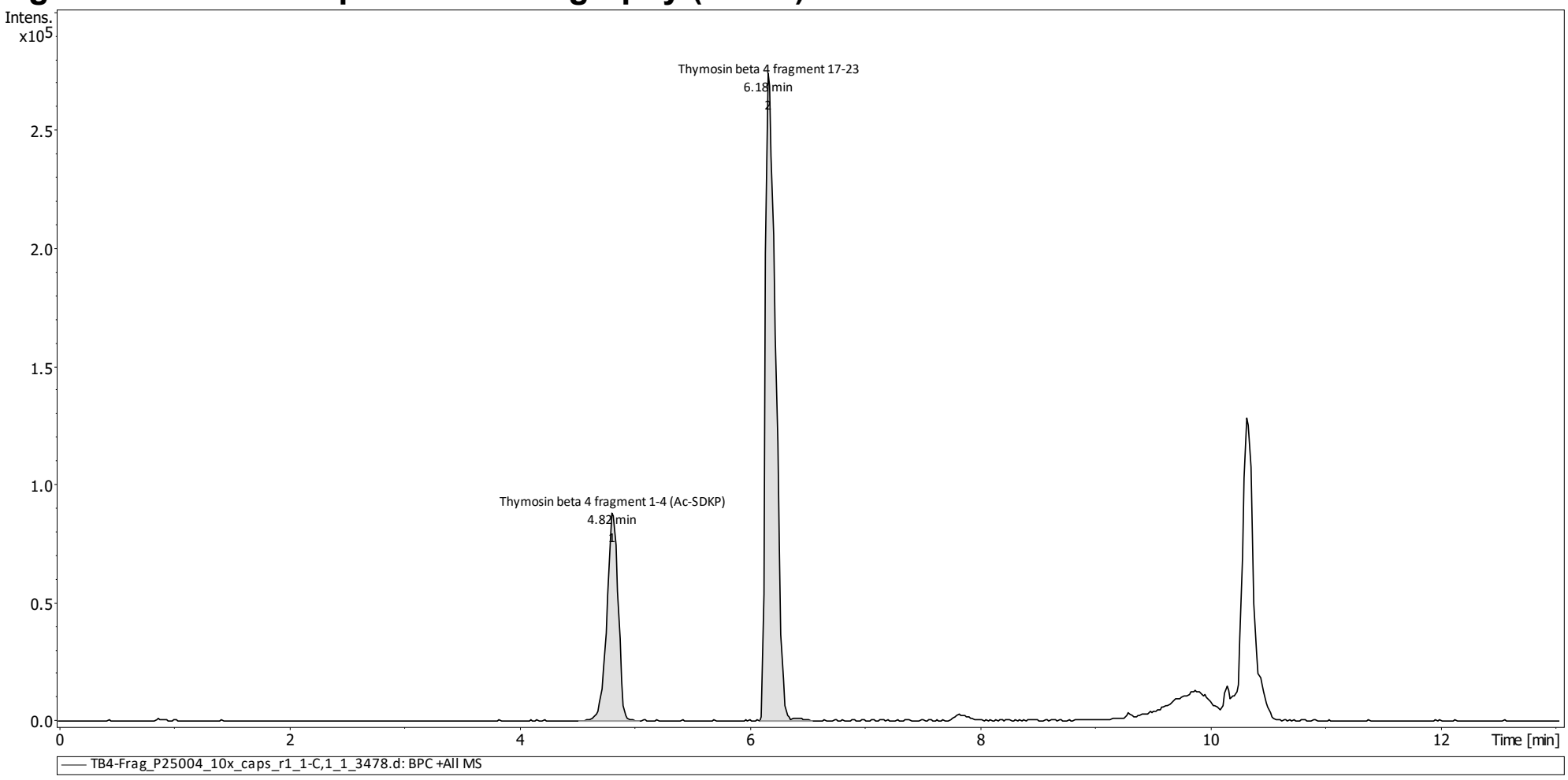
Certificate of Analysis

TB4 fragment 1-4, Thymosin β 4 Fragment 17-23 capsules

Compound : **Ac-SDKP,TB-500**
Lot number : **P25004**
Analysis date : **2025-02-26**
Ac-SDKP : **511.8 mcg/capsule**
TB-500 **635.9 mcg/capsule**
Method : **HPLC-MS**

Client : **BioThive Peptide**
www.biothrive.us

High Performance Liquid Chromatography (HPLC) MS



Ac-SDKP detected at 4.82 minutes
TB-500 detected at 6.18 minutes

Background peaks due to capsule filler

Quantification by HPLC-MS	**Ac-SDKP**	**TB-500**
Replicates	mcg/capsule	mcg/capsule
TB4-Frag_P25004_caps_r1	537.7	628.43
TB4-Frag_P25004_caps_r2	538.9	601.93
TB4-Frag_P25004_caps_r3	458.9	677.35
Average mcg/capsule	**511.8**	**635.9**

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
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2025-03-07

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TB4 fragment 1-4, Thymosin β 4 Fragment 17-23 capsules

TB4 fragment 1-4 PubChem CID: 65938
https://pubchem.ncbi.nlm.nih.gov/compound/65938

Mass Spectrometry (MS) – Identity Test

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

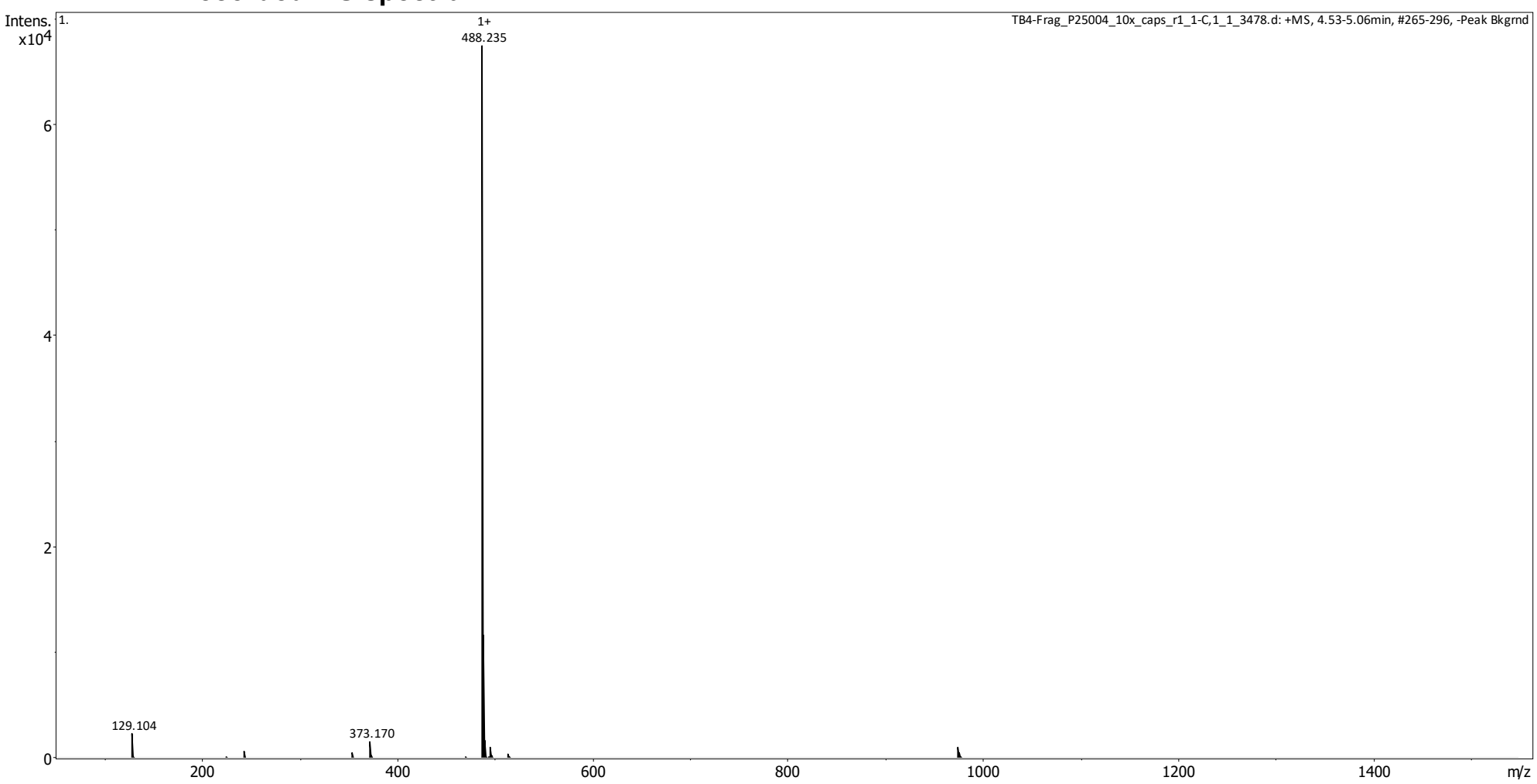
Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Thymosin beta4 fragment 1-4 (Ac-SDKP)

Expected monoisotopic mass :	487.23	Da
Measured monoisotopic mass :	487.24	Da

Molecular weight confirmed

Recorded MS spectrum



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TB4 fragment 1-4, Thymosin β 4 Fragment 17-23 capsules

Thymosin β 4 Fragment 17-23 PubChem CID: 62707662
https://pubchem.ncbi.nlm.nih.gov/compound/62707662

Mass Spectrometry (MS) – Identity Test

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

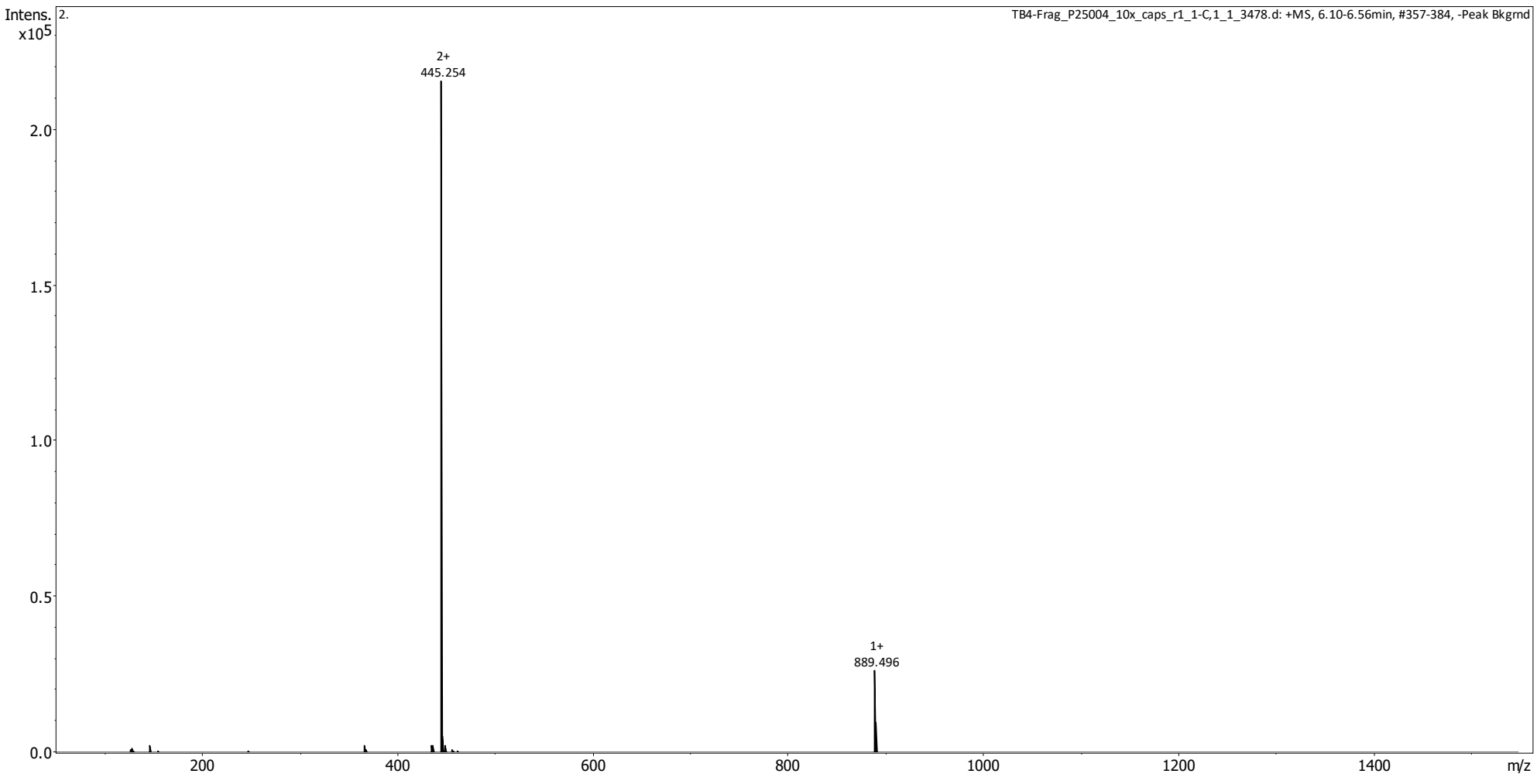
Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides. The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

TB-500 (Thymosin beta 4 fragment 17-23)

Expected monoisotopic mass :	888.49	Da
Measured monoisotopic mass :	888.50	Da

Molecular weight confirmed

Recorded MS spectrum



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2025-03-07