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Searchable via: [FreedomDiagnosticsTesting.com](https://freedomdiagnostics.com/testing)

Product	Methylene Blue
Net Peptide Content	N/A
Identity	Methylene Blue

Certificate of Analysis

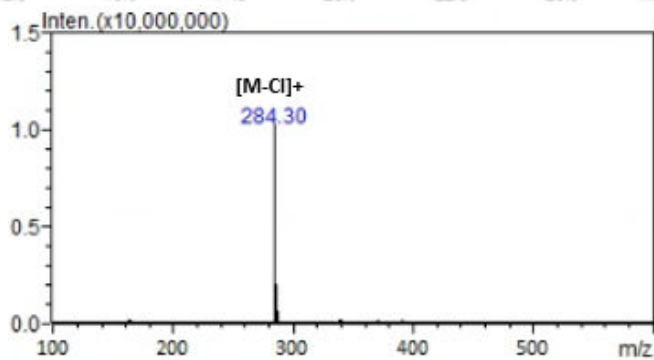
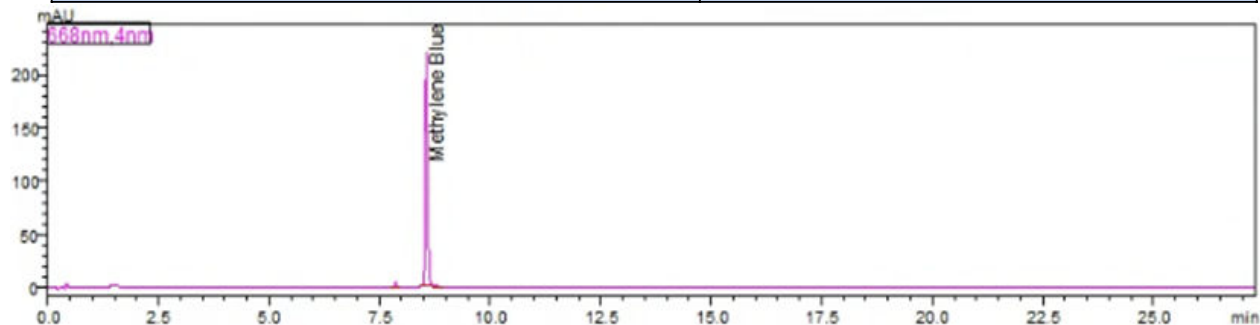
Assession Number	2506060065
Client	Peptide Pro
Search Code	pept2506060065

Received Date:	6/6/2025
Reported Date:	6/10/2025

Lot	PBV-050125
Purity	98.06%
Appearance	Blue Liquid

All Chemical Analysis was performed by HPLC with UV Detection Coupled with Mass Spectrometry

Mass Identification	Result
Methylene Blue	98.06%



Stephen Schmidt

Stephen Schmidt
Principle Chemist

COA: 2506060065

The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.

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Contact at: Admin@FreedomDiagnostics.net



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Product	Methylene Blue
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Certificate of Analysis

Assession Number	2506060066
Client	Peptide Pro
Search Code	pept2506060066

Received Date:	6/6/2025
Reported Date:	6/9/2025

Lot	PBV-050125
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All analyses are conducted for research purposes and performed in duplicate in accordance with USP <85> guidelines

Endotoxin Threshold		Result
Replicate 1	≤ 0.05 EU/mL	PASS
Replicate 2	≤ 0.05 EU/mL	PASS



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Principle Chemist

COA: 2506060066

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Certificate of Analysis

Methylene Blue

[7-(dimethylamino)phenothiazin-3-ylidene]-dimethylazanium;chloride

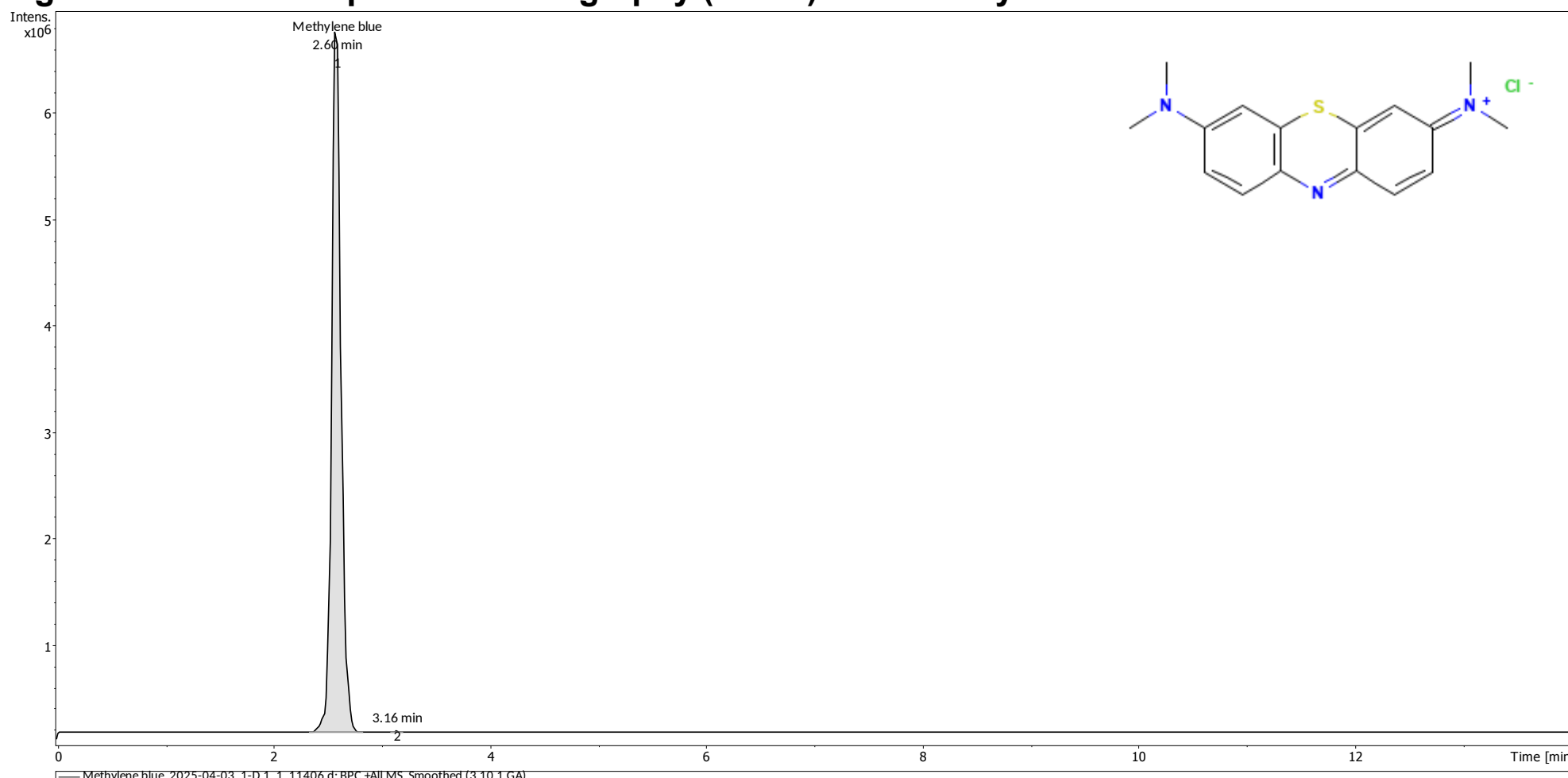
Compound : Methylene Blue
Lot number : 2025-04-03
Analysis Date : 2025-04-24
Purity % : 99.96%
Method : HPLC-MS

Client : Peptide Pro

PubChem CID: 6099

<https://pubchem.ncbi.nlm.nih.gov/compound/6099>

High Performance Liquid Chromatography (HPLC) MS – Purity Test



PEAK LIST		Number of detected peaks: 2		
	Time (min)	Area	%Area	
1	2.60	4.04E+07	99.96	Methylene Blue
2	3.16	1.44E+04	0.04	

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



2025-04-29

Methylene Blue

PubChem CID: 6099

<https://pubchem.ncbi.nlm.nih.gov/compound/6099>

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

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

Expected monoisotopic mass : 284.12 Da

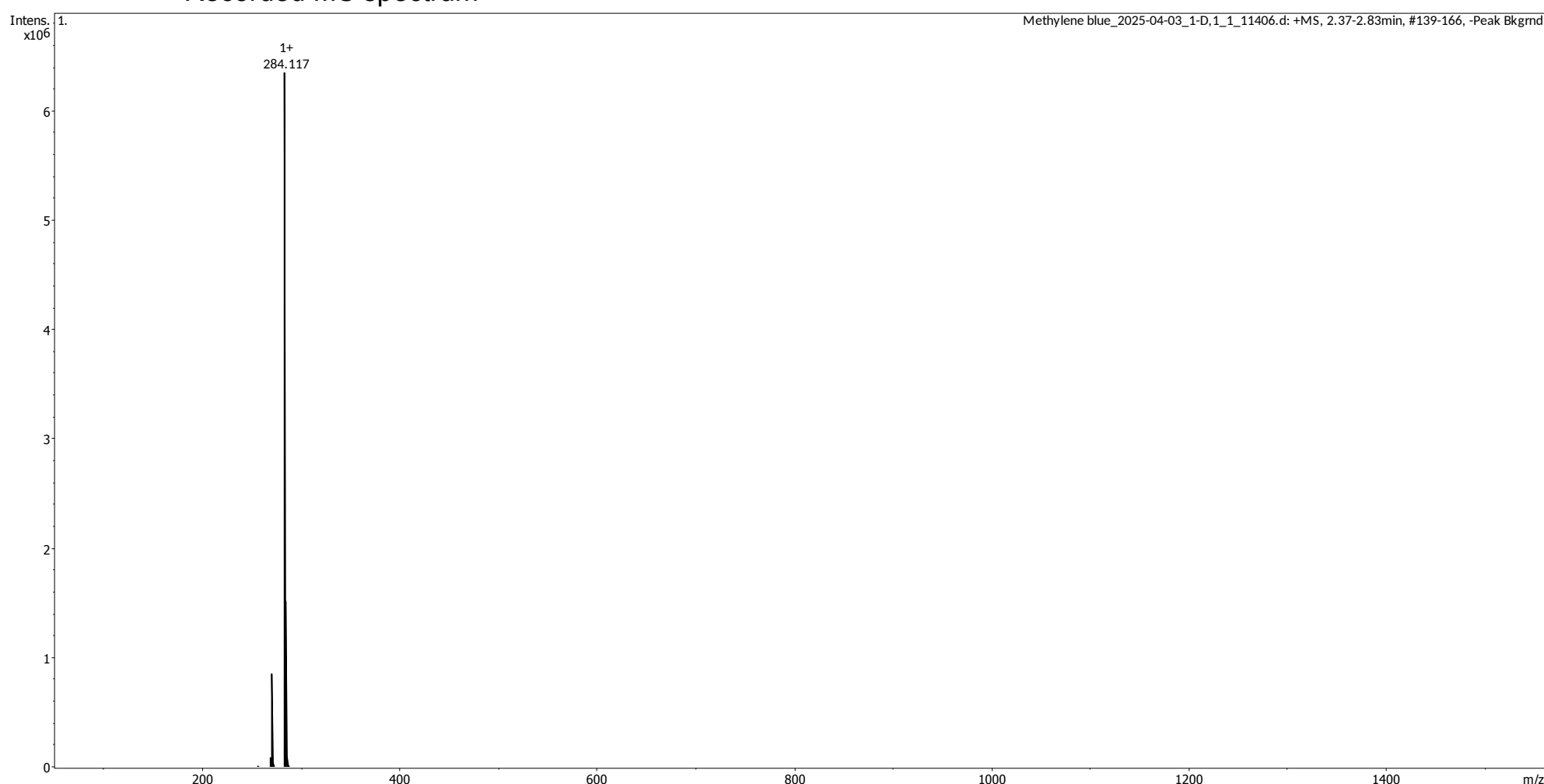
Measured monoisotopic mass : 284.12 Da

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 MS spectrum



Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
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2025-04-29