



Certificate of Analysis

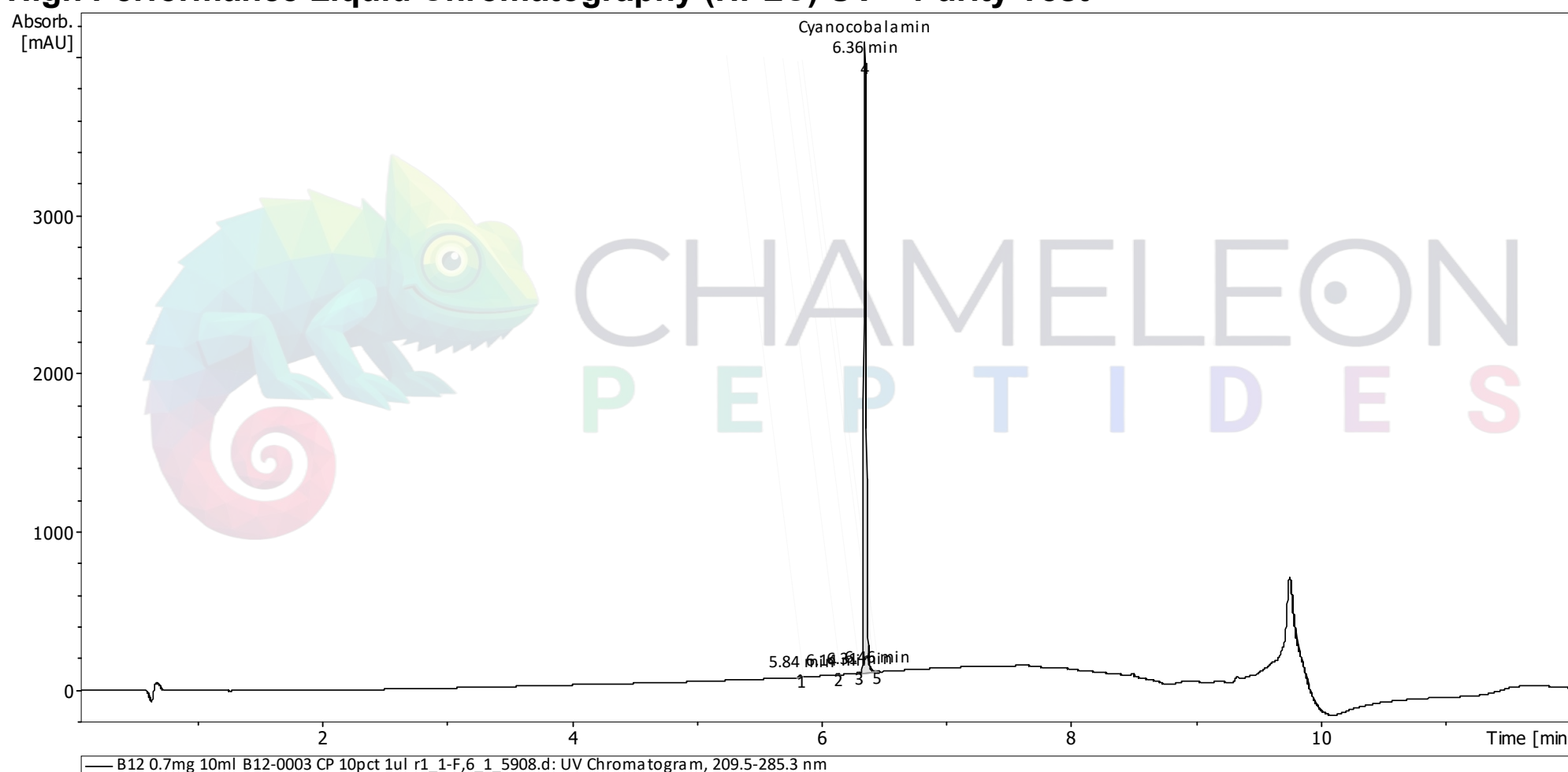
B12 Cyanocobalamin 1000 mcg/ml

Compound : B12
Lot number : B12-B003
Analysis date : 2026-09-11
Purity % : 99.30%
Concentration : 1097.19 mcg/ml
Method : HPLC-UV-MS

Client : Chameleon Peptides
<https://chameleonpeptides.com/>

PubChem CID: 5311498
<https://pubchem.ncbi.nlm.nih.gov/compound/5311498>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST				Number of detected peaks: 5
	Time (min)	Area	%Area	
1	5.84	1.94E+01	0.36	B12 Cyanocobalamin
2	6.14	7.75E+00	0.14	
3	6.31	5.64E+00	0.11	
4	6.36	5.34E+03	99.30	
5	6.46	5.05E+00	0.09	

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
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Quantification by HPLC-UV
Measured quantity : 1097.19 mcg/ml

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.


2026-09-15

B12 Cyanocobalamin 1000 mcg/ml

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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

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

Expected monoisotopic mass : 1354.57 Da

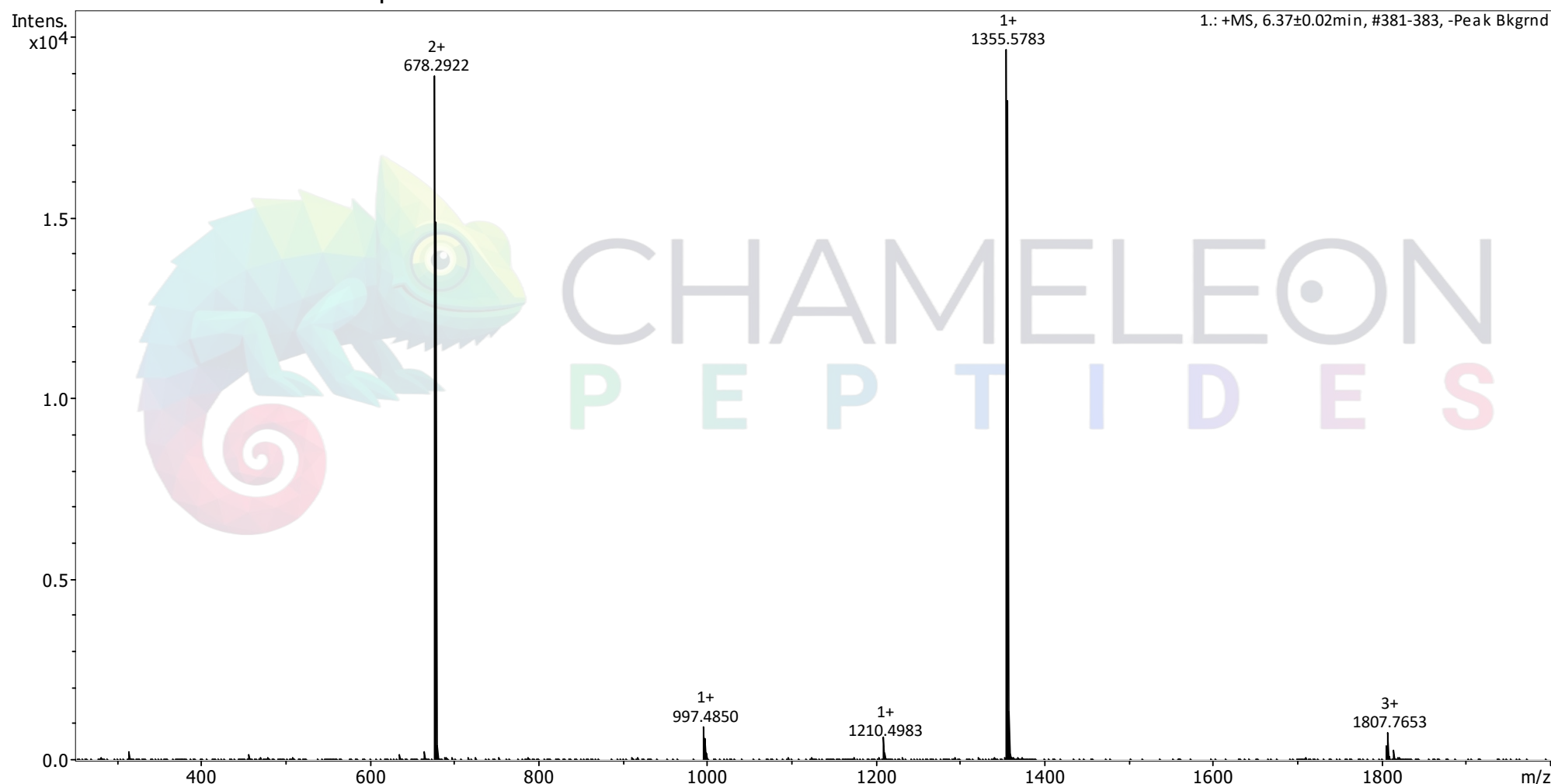
Measured monoisotopic mass : 1354.58 Da

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



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