



Report #:

COA261383-003

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Title:

Certificate of Analysis (CoA)



Date: 9/15/2026
Date Tested: 9/13/2026
Customer: Alpine Peptide
Testing material: Wolverine
Lot Number: WOLV-2026-120
Sample ID: BTL261383-003
Content/Potency: 20 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, white label, copper crimp, clear plastic cap.
Labeled as: Wolverine
Manufacturer: Alpine
Testing Purpose: FTIR and HPLC analysis for the identification, purity, potency and composition of a peptide product. It does not provide information on particulate matter, microbial contamination or presence of endotoxins.



Test	Method	Specification	Result
General Appearance	USP <630>	white powder	white powder
Mass	USP <41>	As recorded	92.3 mg
FTIR Identification and Composition Analysis	USP <197A>	Sample spectrum should confirm the content of peptide via characteristic bands	FTIR sample spectrum confirms the presence of Wolverine with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: $\geq 98\%$	99.7 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 20 mg	BPC-157 5.6 mg (28.2 %) TB-500 14.5 mg (72.3 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:0) to (1:10) for (peptide: excipients)	20.1 : 72.2 mg (1:3.6)

The results of the CoA relate only to the item(s) tested and applied to the sample as received.

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IF - 824 - QSA - TR006

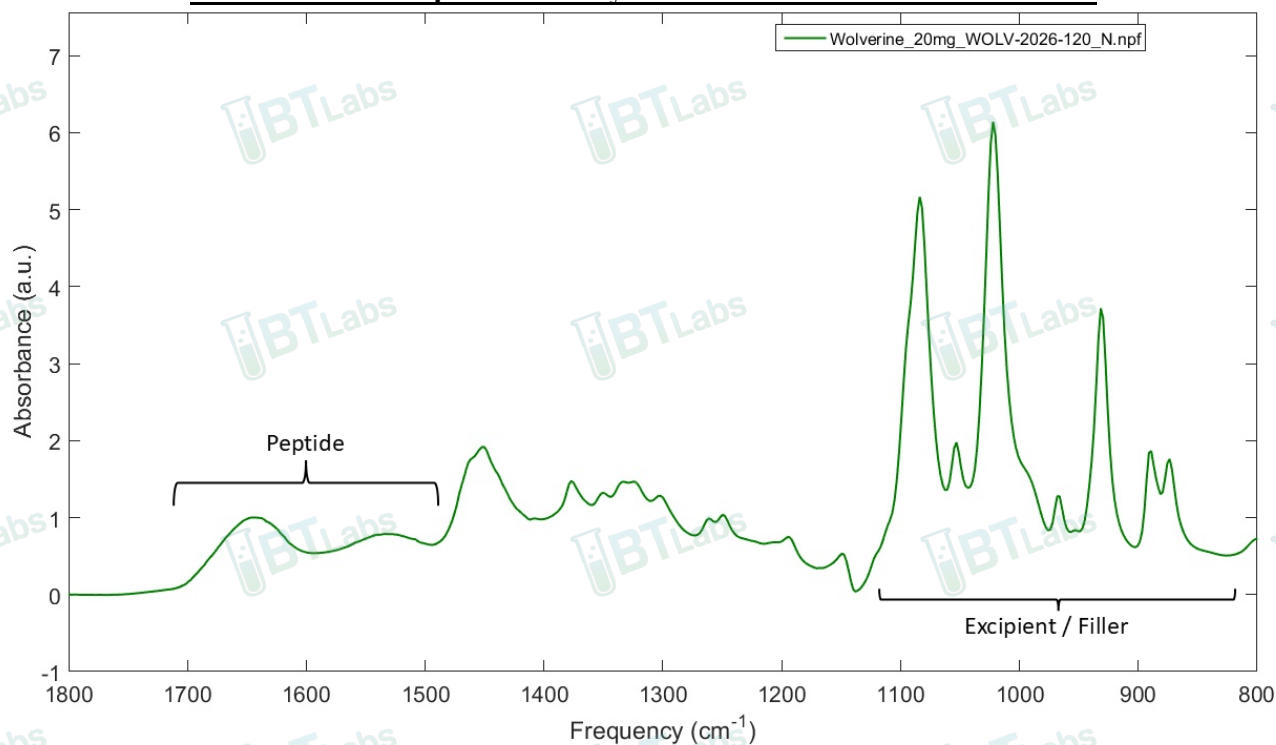
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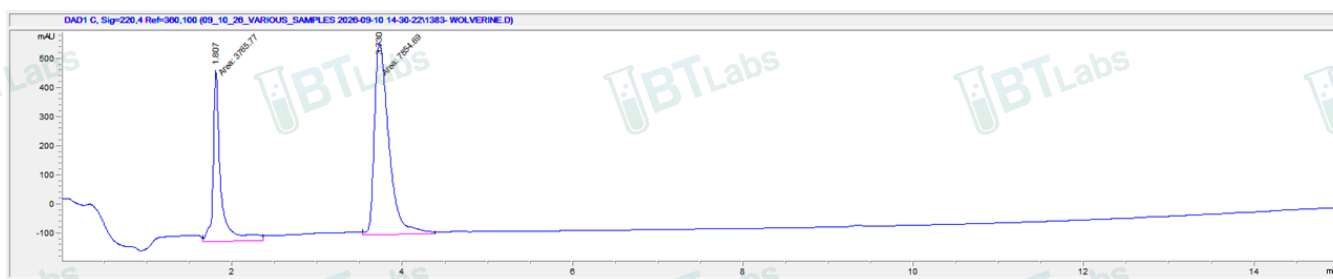
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FTIR ID and Composition Analysis: Wolverine Lot WOLV-2026-120



HPLC Purity and Potency Assay @ 220 nm: Wolverine Lot WOLV-2026-120



Wolverine Lot WOLV-2026-120 @ 220 nm

Peak #:	Retention Time (min)	Area (mAU*s)
1	1.807	3765.8
2	3.73	7854.7