Title:

Certificate of Analysis (CoA)



Date: 8/5/2026
Date Tested: 8/3/2026
Customer: Gem State Compounds
Testing material: Retatrutide
Lot Number: GSC-3R
Content/Potency: 20 mg
Storage: R.T.
Visual Description: Small clear vial: white sample, black label, silver crimp, white plastic cap.
Labeled as: Retatrutide
Manufacturer: Two
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	114.5 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 Retatrutide with addition of excipient(s)/fillers.
HPLC Purity of Peptide Assay	USP <621>	Specifications: ≥ 98 %	99.7 %
HPLC Potency Assay	USP <621>	Specifications: 90 – 110% of 20 mg	21.2 mg (106.1 %)
Peptide-to-Excipients Ratio	USP <1151>	Recommended ratios of (1:2) to (1:10) for (peptide: excipients)	21.2 : 93.3 mg (1:4.4)

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

Andrea Castro, BS
Scientist-II
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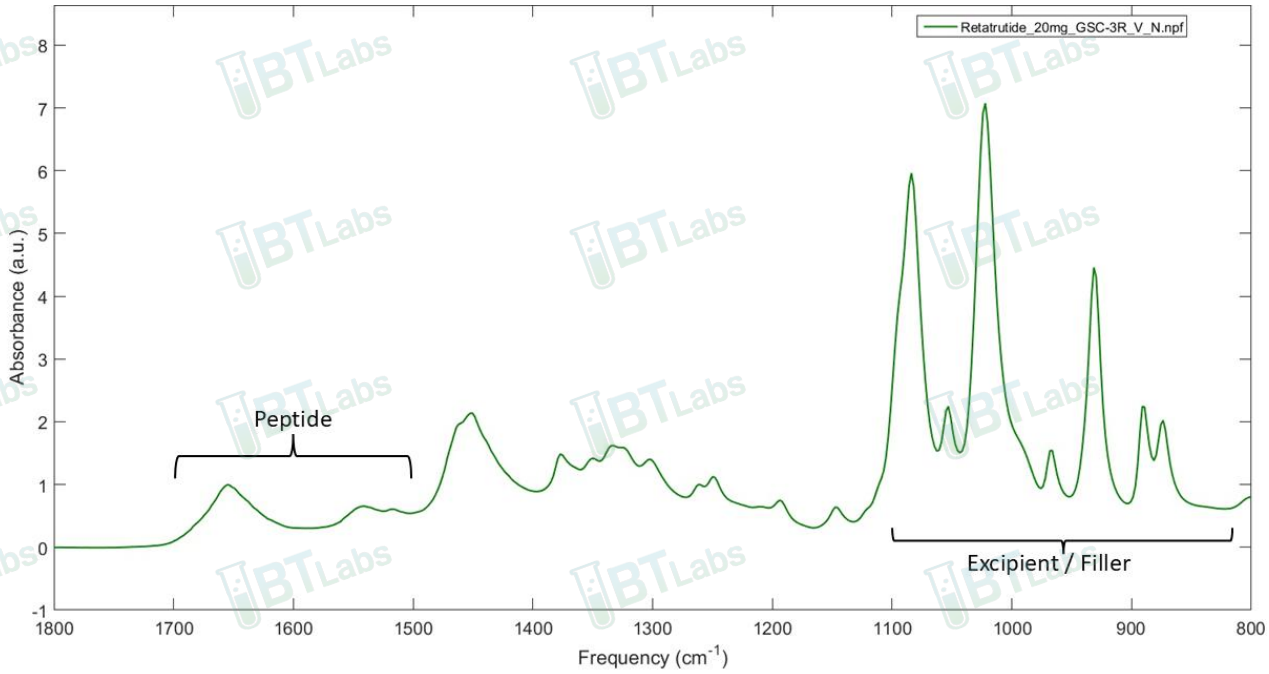
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FTIR ID and Composition Analysis: Retatrutide Lot GSC-3R



HPLC Purity and Potency Assay @ 280 nm: Retatrutide Lot GSC-3R



Retatrutide Lot GSC-3R @ 280 nm		
Peak #:	Retention Time (min)	Area (mAU*s)
1	10.079	831.9

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