



Certificate of Analysis

10 Peptide Standard – Lyophilized 71 µg

**Agilent Part
Number:** 5190-0583

**Sample Lot
Number:** AGI-19002

This peptide standard kit was manufactured and verified in accordance with an ISO 9001 registered quality system. The certified value for each analyte was determined gravimetrically with tolerance of ± 1.0 %.

#	Peptide name	Molecular weight (Da)	Peptide sequence	Weight (µg)*
1	Bradykinin frag 1-7	756.85	RPPGFSP	6.19
2	Bradykinin	1060.21	RPPGFSPFR	5.90
3	Angiotensin II (human)	1045.53	DRVYIHPF	6.89
4	Neurotensin	1672.92	Glp-LYENKPRRPYIL	5.48
5	Angiotensin I (human)	1296.48	DRVYIHPFHL	6.54
6	Renin substrate porcine	1759.01	DRVYIHPFHLLVYS	5.83
7	[Ace-F-3,-2 H-1] Angiotensinogen (1-14)	2231.5	Ace-FFHDRVYIHPFHLLVYS-NH ₂	5.62
8	Ser/Thr Protein Phosphatase (15-31)	1952.3	EIFLSQPILLELEAPLK-NH ₂	13.50
9	[F14] Ser/Thr Protein Phosphatase (15-31)	2099.5	FEIFLSQPILLELEAPLK-NH ₂	10.97
10	Melittin (honey bee venom)	2846.46	GIGAVLKVLTGLPALISWIKRKRQQ-NH ₂	4.08

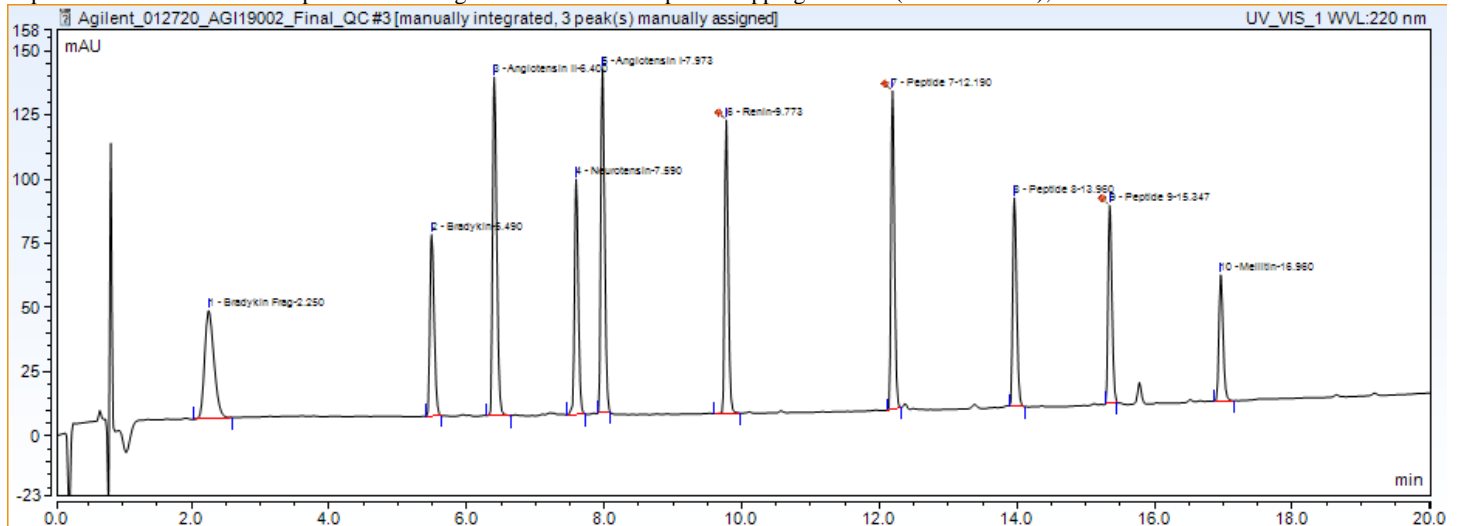
Calibrated Class A glassware and clean bottles are used in the manufacture of this reference material. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

*The weight of each peptide is determined from the preparation process.



Typical HPLC chromatogram:

Peptide standard 5190-0583 separated on an Agilent AdvanceBio Peptide Mapping Column (2.1 x 150 mm); DAD: 220 nm.



*Retention times will vary with different HPLC conditions, column and instrument.

Instructions

The lyophilized 10 peptide mixture in each vial contains 71 µg total peptide. Each individual peptide concentration was adjusted to deliver comparable UV signal intensities. It is recommended to dilute each vial with 100 µl of mobile phase solvent containing 0.1% aqueous trifluoroacetic acid (TFA) or 0.1% formic acid (FA), vortex to dissolve the peptide. The final peptide sample concentration after dilution is 0.71 µg/µL. The following table suggests injection volumes for LC based on different internal column diameters.

For 100 µL dilution

Column ID (mm)	Inj. Volume (µL)	total peptide mass injected (µg)
4.6	10	7.10
2.1	2	1.42
1.0	0.45	0.32

In order to easily use the reconstituted peptide sample directly in an Agilent autosampler, this vial is provided with an Easy-Peel product label. After you remove the original product label, please re-label the vial according to your laboratory's best practices.

Storage and Stability

The lyophilized 10 peptide standard is shipped under room temperature. Upon receipt, it is recommended to store the product at -20 °C. Under -20 °C storage the lyophilized standard has stability for 2 years.

Date of release: 17 Jan 2020

Date of expiration: 17 Jan 2022