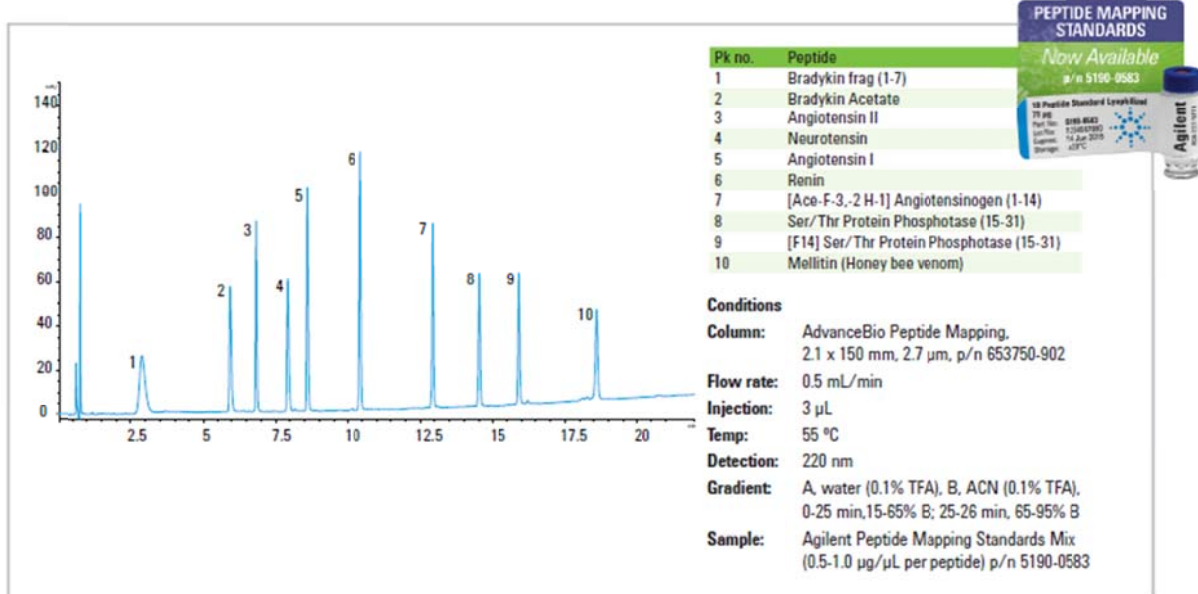


# Quickly confirm the identity of target proteins and peptides

## Quality Assurance Testing with Agilent Peptide Mix

Test mix used for every batch of AdvanceBio Peptide Mapping media. The mixture contains 10 hydrophilic, hydrophobic, and basic peptides, ranging in molecular weight from 757 to 2845 Da. Every column is also tested with a small-molecule probe to ensure efficiency.



### Agilent Peptide Quality Control Standard

Use Agilent's ten-peptide quality control standard, the same standard Agilent uses to QC its columns, to evaluate your column performance over its lifetime. It can be used for HPLC or LC/MS. Approximately 20 injections per vial.

### Agilent Peptide Quality Control Standard

Description	Part No.
Peptide quality control standard, 71 µg in 2 mL vial	5190-0583

## Quality assurance testing with Agilent peptide mix

**Column:** AdvanceBio Peptide Mapping  
653750-902  
2.1 x 150 mm, 2.7 µm

Flow Rate: 0.5 mL/min

Injection: 3 µL

Gradient: A, water (0.1% TFA), B, ACN (0.1% TFA), 0-25 min,  
15-65% B; 25-26 min, 65-95% B

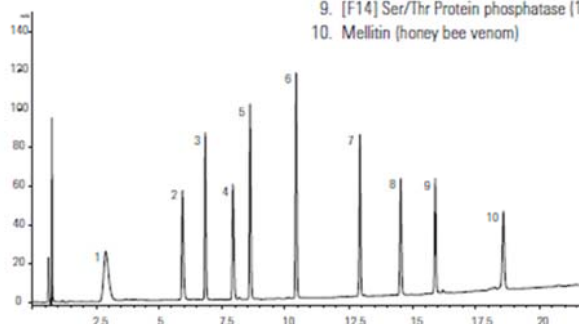
Temperature: 55 °C

Detector: 220 nm

Sample: Agilent Peptide Mapping Standards Mix (0.5-1.0  
µg/µL per peptide) p/n 5190-0583

Test mix used for every batch of AdvanceBio Peptide Mapping media. The mixture contains 10 hydrophilic, hydrophobic, and basic peptides, ranging in molecular weight from 757 to 2845 Da. Every column is also tested with a small-molecule probe to ensure efficiency.

1. Bradykin frag (1-7)
2. Bradykin acetate
3. Angiotensin II
4. Neurotensin
5. Angiotensin I
6. Renin
7. [Ace-F-3,-2 H-1] Angiotensin (1-14)
8. Ser/Thr Protein phosphatase (15-31)
9. [F14] Ser/Thr Protein phosphatase (15-31)
10. Mellitin (honey bee venom)



## TIPS & TOOLS

Peptide mapping is a powerful technique and the most widely used identity test for proteins, particularly those produced by recombinant means. There are several considerations to be made in addition to column selection for reproducible and accurate peptide maps, including protein digestion, sample prep, method optimization, and so on. For fundamental techniques used for peptide mapping procedures and emphasized considerations for optimizing your peptide mapping separations to achieve the best possible results, see *Keys for Enabling Optimum Peptide Characterizations: A Peptide Mapping "How to" Guide* (publication 5991-2348EN)

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