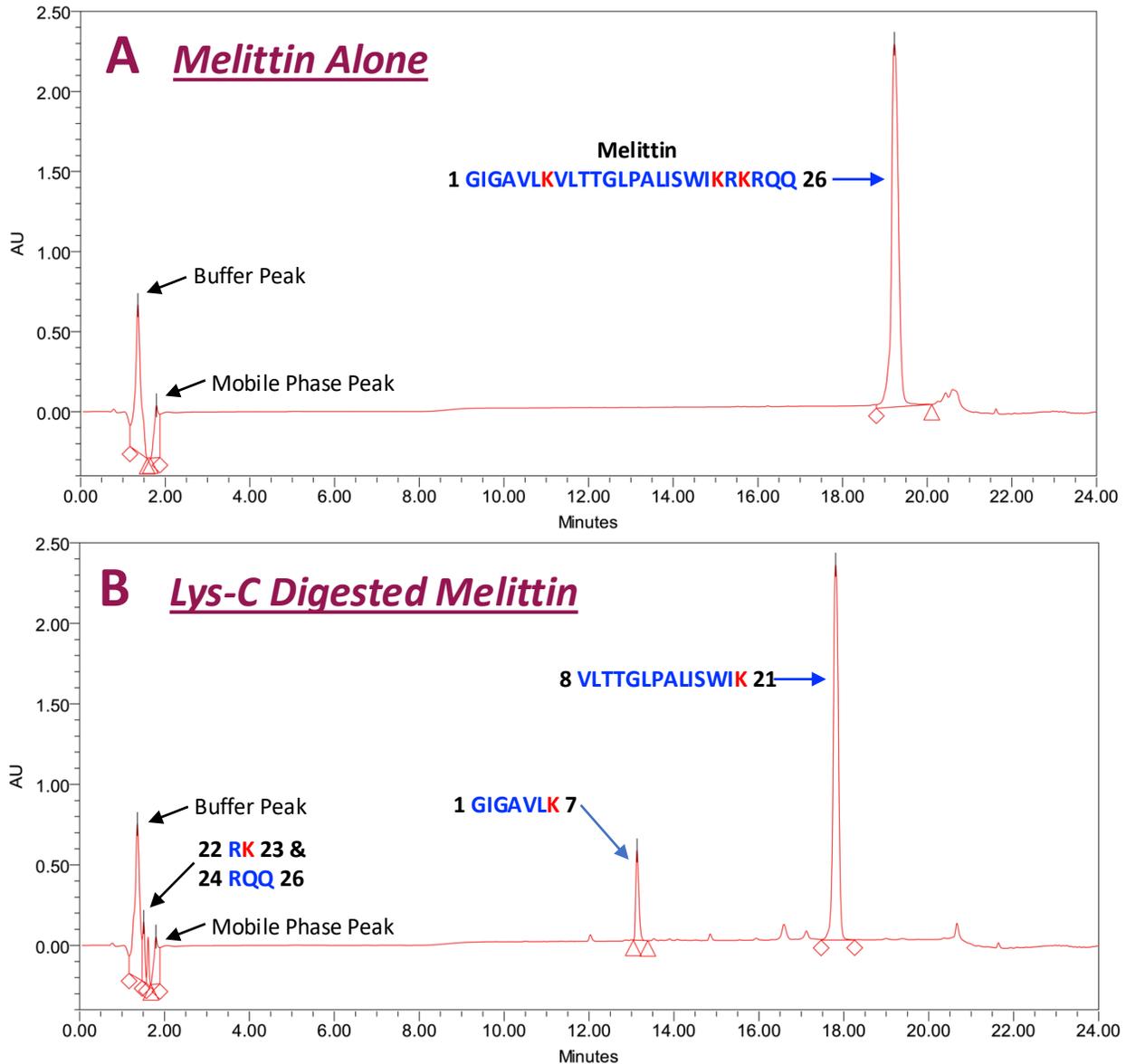


# Reverse Phase HPLC of Undigested and Endoproteinase Lys-C Digested Melittin



75  $\mu\text{g}$  Melittin was incubated with buffer (Panel A) or 0.04 units Lys-C ( $\sim 0.2 \mu\text{gP}$ ) (Panel B) in a total volume of 165  $\mu\text{l}$  containing 100mM Tris-HCl, pH 8.5 for 2 hours at 37°C and resolved by reverse phase HPLC on a C18 column.

*Lysobacter enzymogenes* Endoproteinase Lys-C is a serine protease that specifically cleaves peptides on the carboxyl side of lysine (K) residues. Melittin is a 26 amino acid peptide found in honey bee venom containing 3 lysine residues (K) at positions 7, 21 and 23. It elutes as a single peak at 19.2 minutes. Digestion with Lys-C results in cleavage after all three lysine residues generating two small peptides that coelute at 1.5 minutes and two larger peptides that elute at 13.1 and 17.8 minutes.