Melittin Peptide from Bee Venom of *Apis Mellifera*

ACE® Ultra-inert UHPLC & HPLC Columns

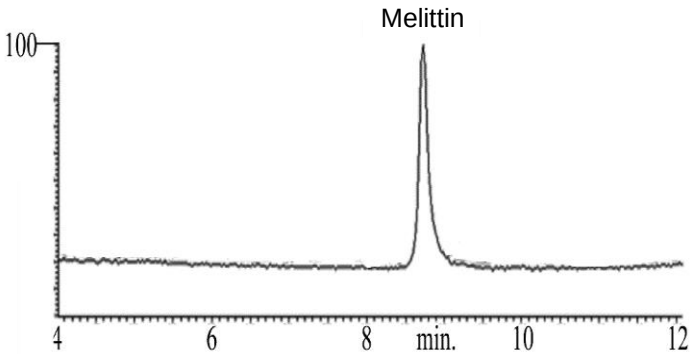
Application #AN4430

Conditions

Column:	ACE 3 C18
Dimensions:	150 x 3.0 mm
Part Number:	ACE-111-1503
Mobile Phase:	A: 0.1% formic acid in H_2O
	B: 0.1% formic acid in MeCN

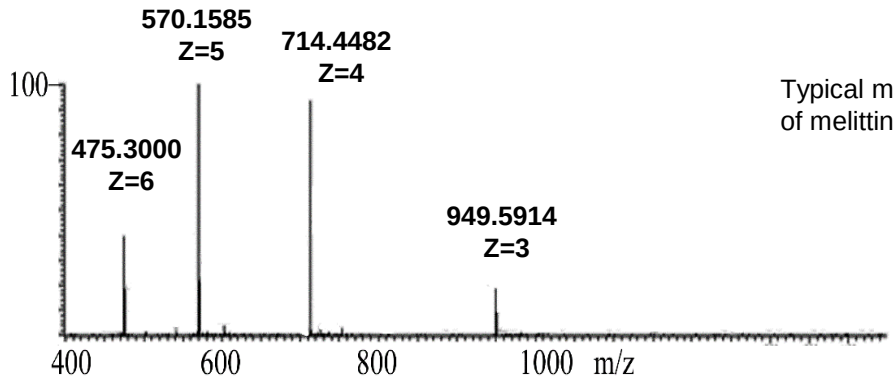
Time (mins)	%B
0	20
10	70
16	70
20	20
25	20

Flow Rate:	0.3 mL/min
Injection:	10 µL
Detection:	Thermo Orbitrap MS
	ESI in positive ion mode
Sample:	Fraction isolated from crude bee venom by flash chromatography



Melittin, a 26 amino acid residue peptide, is the major constituent of bee venom.
MW 2846

H–Gly–Ile–Gly–Ala–Val–Leu–Lys–Val–Leu–
Thr–Thr–Gly–Leu–Pro–Ala–Leu–Ile–Ser–Trp–
Ile–Lys–Arg–Lys–Arg–Gln–Gln–NH_2



Typical mass spectrum of melittin

Tusiimire J, Wallace J, Woods N, Dufton MJ, Parkinson JA, Abbott G, Clements CJ, Young L, Park JK, Jeon JW, Ferro VA, Watson DG. Effect of Bee Venom and its Fractions on the Release of Pro-inflammatory Cytokines in PMS-Differentiated U937 Cells Co-stimulated with LPS. Vaccines 4, 11 (2016).
doi:10.3390/ vaccines4020011

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