Toxins from *Amanita Phalloides* Mushrooms by LC-HRMS

ACE® Ultra-inert UHPLC & HPLC Columns

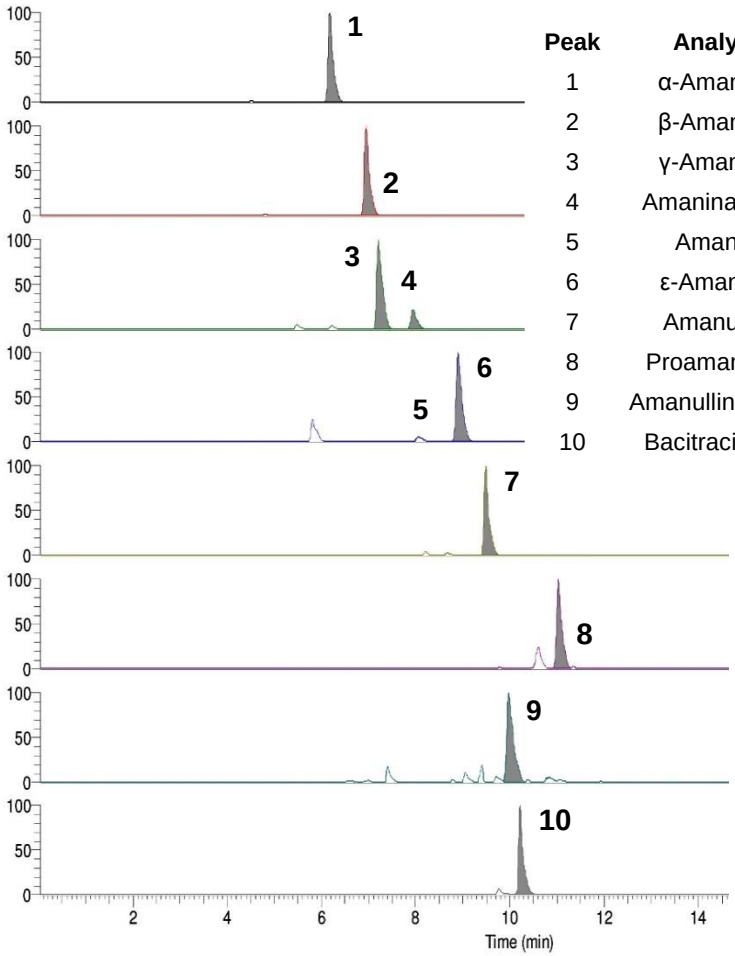
Application #**AN4060**

Conditions

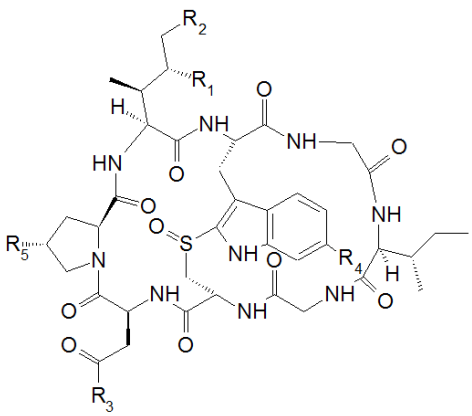
Column:	ACE 3 AQ
Dimensions:	150 x 3.0 mm
Part Number:	ACE-116-1503
Mobile Phase:	A: 0.1% formic acid in H_2O
	B: 0.1% formic acid in MeOH

Time (mins)	%B
0	15
17	100
22	100
22	15
30	15

Flow Rate:	0.4 mL/min
Injection:	10 µL
Temperature:	50 °C
Detection:	Thermo Exactive MS
	ESI in positive ion mode



Peak	Analyte	R1	R2	R3	R4	R5	Exact Mass
1	α-Amanitin	OH	OH	NH2	OH	OH	918.35417
2	β-Amanitin	OH	OH	OH	OH	OH	919.338182
3	γ-Amanitin	H	OH	NH2	OH	OH	902.359252
4	Amaninamide	OH	OH	NH2	H	OH	902.359252
5	Amanin	OH	OH	OH	H	OH	903.343267
6	ε-Amanitin	H	OH	OH	OH	OH	903.343267
7	Amanullin	H	H	NH2	OH	OH	886.364337
8	Proamanullin	H	H	NH2	OH	H	870.369423
9	Amanullinic acid	H	H	OH	OH	OH	887.348353
10	Bacitracin (IS)	-	-	-	-	-	1421.7489



Amatoxins

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