

**Supplementary material 2. Flow rates and timing for liquid chromatography mass spectrometry conditions**

Time (min)	Mobile phase		Flow (mL/min)
	A (%)	B (%)	
Initial	85	15	0.3
1	85	15	0.3
1.5	40	60	0.3
10	10	90	0.3
12	10	90	0.3
12.1	2	98	0.3
16	2	98	0.3
20	85	15	0.3

Mobile A, 0.1% formic acid and 5 mM ammonium formate in water; mobile B, 0.1% formic acid and 5 mM ammonium formate in methanol.