

**Figure 1-Figure Supplement 6: Description of the LC gradients used in this study.** First column includes the method run time and the column used.

<b>7min-C18</b>	<b>Flow (mL/min)</b>	<b>%A</b>	<b>%B</b>	<b>Curve</b>		
Initial	0.3	95	5	Initial	A: Water+0.1% Formic acid	(-ve mode)
1	0.3	40	60	6	A: 10mM ammonium formate in water, pH 2.8	(+ve mode)
5	0.3	0	100	6	B: Acetonitrile	
6	0.3	0	100	6		
6.01	0.3	95	5	6		
7	0.3	95	5	6		

<b>22min-C18</b>	<b>Flow (mL/min)</b>	<b>%A</b>	<b>%B</b>	<b>Curve</b>		
Initial	0.3	90	10	Initial	A: Water+0.1% Formic acid	(-ve mode)
7	0.3	40	60	6	A: 10mM ammonium formate in water, pH 2.8	(+ve mode)
15	0.3	0	100	6	B: Acetonitrile	
20	0.3	0	100	6		
20.01	0.3	90	10	6		
22	0.3	90	10	6		

<b>110min-C18</b>	<b>Flow (mL/min)</b>	<b>%A</b>	<b>%B</b>	<b>Curve</b>		
Initial	0.3	99	1	Initial	A: Water+0.1% Formic acid	(-ve mode)
1	0.3	99	1	6	A: 10mM ammonium formate in water, pH 2.8	(+ve mode)
100	0.3	20	80	6	B: Acetonitrile	
101	0.3	0	100	6		
105	0.3	0	100	6		
106	0.3	99	1	6		
110	0.3	99	1	6		

<b>9min-BEH amide</b>	<b>Flow (mL/min)</b>	<b>%A</b>	<b>%B</b>	<b>Curve</b>	A: Water+0.1% Formic acid
Initial	0.3	5	95	Initial	B: Acetonitrile
1	0.3	5	95	6	
6	0.3	40	60	6	
7	0.3	95	5	6	
7.01	0.3	5	95	6	
9	0.3	5	95	6	