

Table S2. LC conditions

HPLC:	Agilent 1100 series (Agilent Technologies)	
Separation column:	Atlantis T3 (C18, 150 mm, 2.1 mm i.d, 3 μm particle size, Waters)	
Mobile phase:	Solvent A, 0.01% Formic acid and 0.5 mM ammonium acetate in ultra-purified water	
	Solvent B, 0.01% Formic acid and 0.5 mM ammonium acetate in methanol	
Flow rate:	0.2 mL min ⁻¹ (Positive, Negative)	
Column temperature:	40°C (Positive, Negative)	
Injection volume:	10 μL (Positive, Negative)	
LC gradient program:		
	Time (min)	Solvent A (%) Solvent B (%)
Positive		
	0.0	95 5
	1.0	60 40
	3.0	60 40
	5.0	25 75
	8.0	25 75
	12.0	5 95
	15.0	5 95
	15.5	95 5
	25.0	95 5
Negative		
	0.0	90 10
	2.0	10 90
	12.0	10 90
	12.5	90 10
	22.0	90 10