

Supplementary Information Table 1: DART transmission gradient parameters

Parameter	Value
Ion Mode	Positive
He Temperature	150°C
Scan Speed	0.2 mm/sec
DART Position (z-axis)	8-10 mm from the inlet of the MS
DART Position (y-axis)	7 cm
DART tilt angle	45°

Supplementary Information Table 2: Q-Exactive Parameters for full scan mode.

Parameter	Value
Polarity	Positive
Scan Range	m/z 100-220
Resolution	140,000
Automatic Gain Control (AGC) target	5x10 ⁵
Maximum Injection Time	1000 ms
Capillary Temperature	250°C
Normalized Collision Energy (NCE)	None
S-Lens RF Level	80
S-Lens Voltage	25 V
Skimmer Voltage	15 V