

Supplementary information

Table A. 1: Ion source parameters of the developed ambient MS method

Parameter	Value
Capillary temperature /°C	250
Capillary voltage /V	180
Source voltage offset /V	35
Source voltage span /V	0.0
Source gas temperature /°C	250
ESI voltage /V	2500

Table A. 2: Tune parameter voltages of the developed ambient MS method

Parameter	Offset /V	Span /V
Extraction electrode	9	-
Hexapole bias	8	-
Hexapole RF	5	150
Ion energy	-1.2	-0.4
Resolution	0.05	-0.5
Detector gain	1100	-