

Intrada Amino Acid

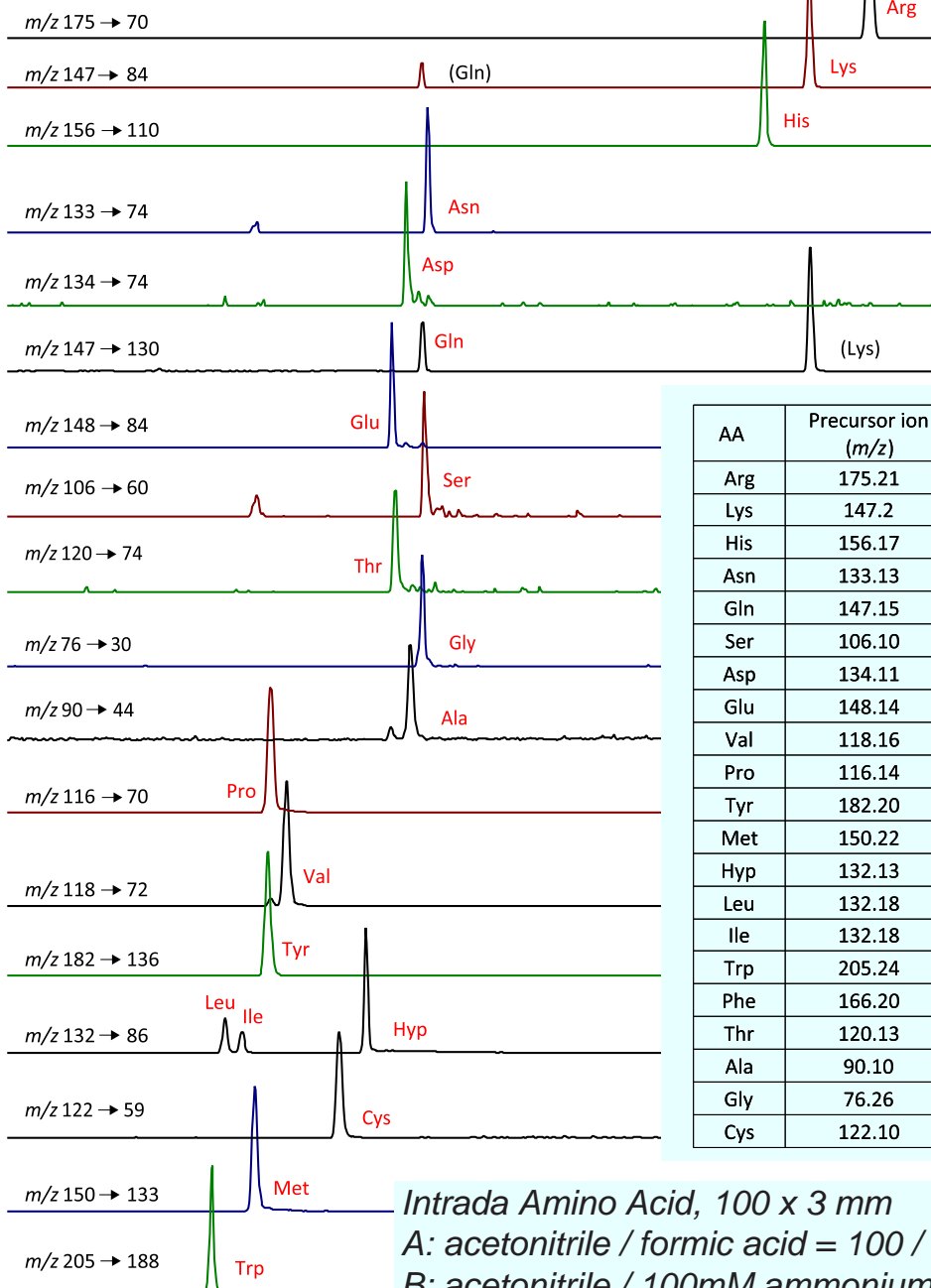
100 x 3 mm

Application

LC-MS: Amino acids standard

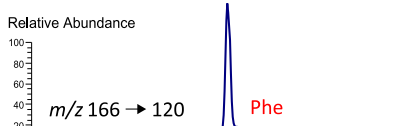
アミノ酸標準試料のLC-MS分析

Thermo Scientific: UltiMate 3000 LC System - TSQ Endura (Triple-Stage Quadrupole Mass Spectrometer)



Thr: 20 nmol/mL in 0.1M HCl
 Ala: 200 nmol/mL in 0.1M HCl
 Gly: 20 μmol/mL in 0.1M HCl
 Cys: 2 μmol/mL in 0.1M HCl
 Others: 400 nmol/mL in 20mM HCl

AA	Precursor ion (m/z)	Product ion (m/z)	Collision energy (V)
Arg	175.21	70.1	22
Lys	147.2	84.1	15
His	156.17	110	13
Asn	133.13	74.1	18
Gln	147.15	130	10
Ser	106.10	60.10	10
Asp	134.11	74.10	14
Glu	148.14	84.10	18
Val	118.16	72.10	10
Pro	116.14	70.10	15
Tyr	182.20	136.00	13
Met	150.22	133.00	10
Hyp	132.13	86.10	10
Leu	132.18	86.10	10
Ile	132.18	86.10	10
Trp	205.24	188.00	9
Phe	166.20	120.00	12
Thr	120.13	74.00	11
Ala	90.10	44.30	12
Gly	76.26	30.54	10
Cys	122.10	59.22	22



Intrada Amino Acid, 100 x 3 mm
 A: acetonitrile / formic acid = 100 / 0.3
 B: acetonitrile / 100mM ammonium formate = 20 / 80
 20%B (0-4 min), 20-100%B (4-14 min), 100%B (14-16 min)
 0.6 mL/min, 37°C, 5 μL (0.1M HCl)
 Triple Quad. MS: ESI (SRM, positive)

Courtesy of Dr. Kuniko MITAMURA, KINDAI UNIVERSITY, JAPAN