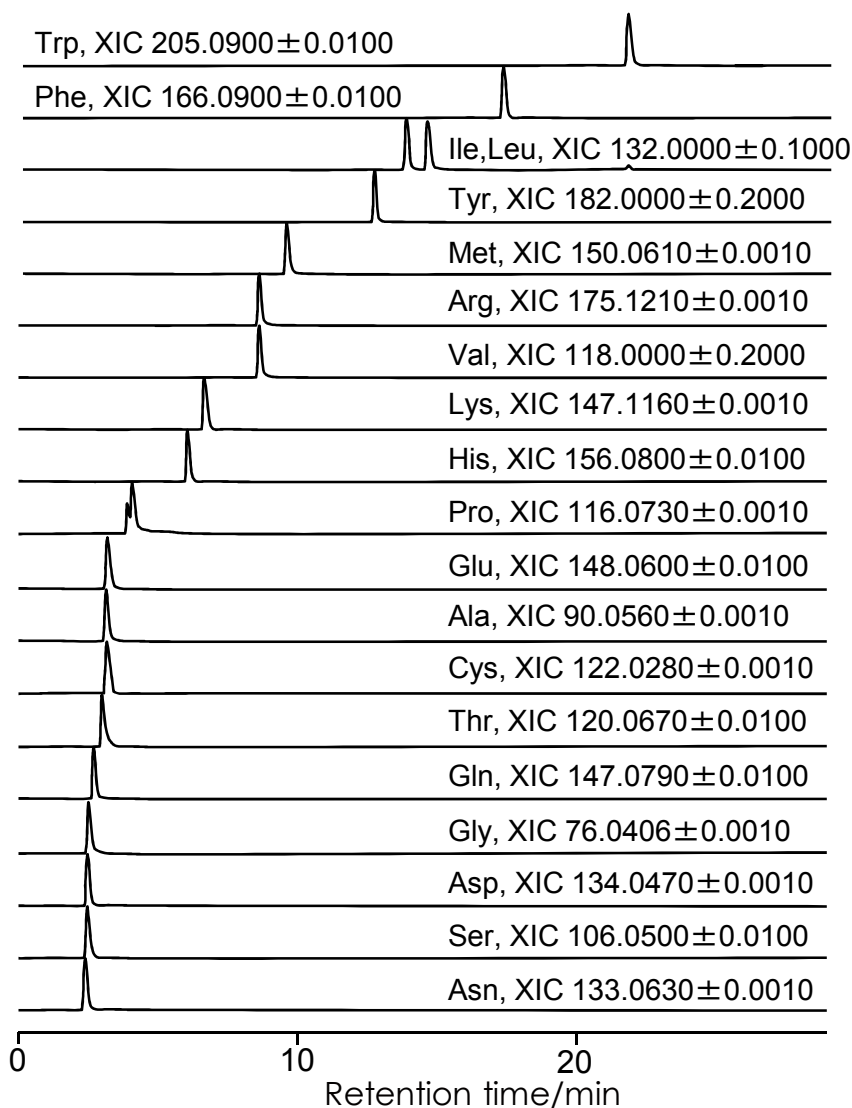


アミノ酸の分離 (LC/MS)

Amino acids LC/MS

SunShell RP-AQUA 2.6 μ m, 150 x 2.1 mm i.d.

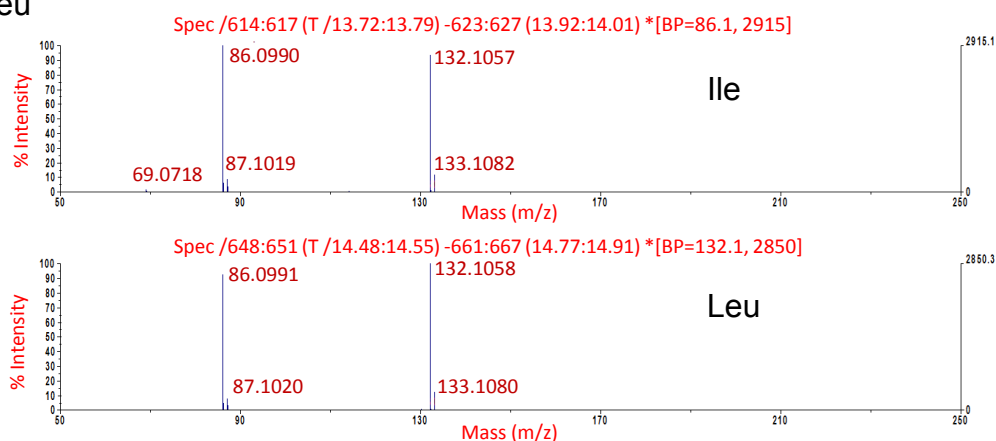


Column:
SunShell RP-AQUA 2.6 μ m,
150 x 2.1 mm
Mobile phase:
A) 5 mM HFBA,
B) 5 mM HFBA in CH₃CN / H₂O
(9/1)
%B 0% to 20% in 20 min
Flow rate: 0.2 mL / min
Temperature: 40 oC
Detection: MS (NanoFrontier LD)
ESI Positive, Extracted ion
chromatogram (EIC)
HPLC: LaChrom Ultra

HFBA: Heptafluorobutyric acid

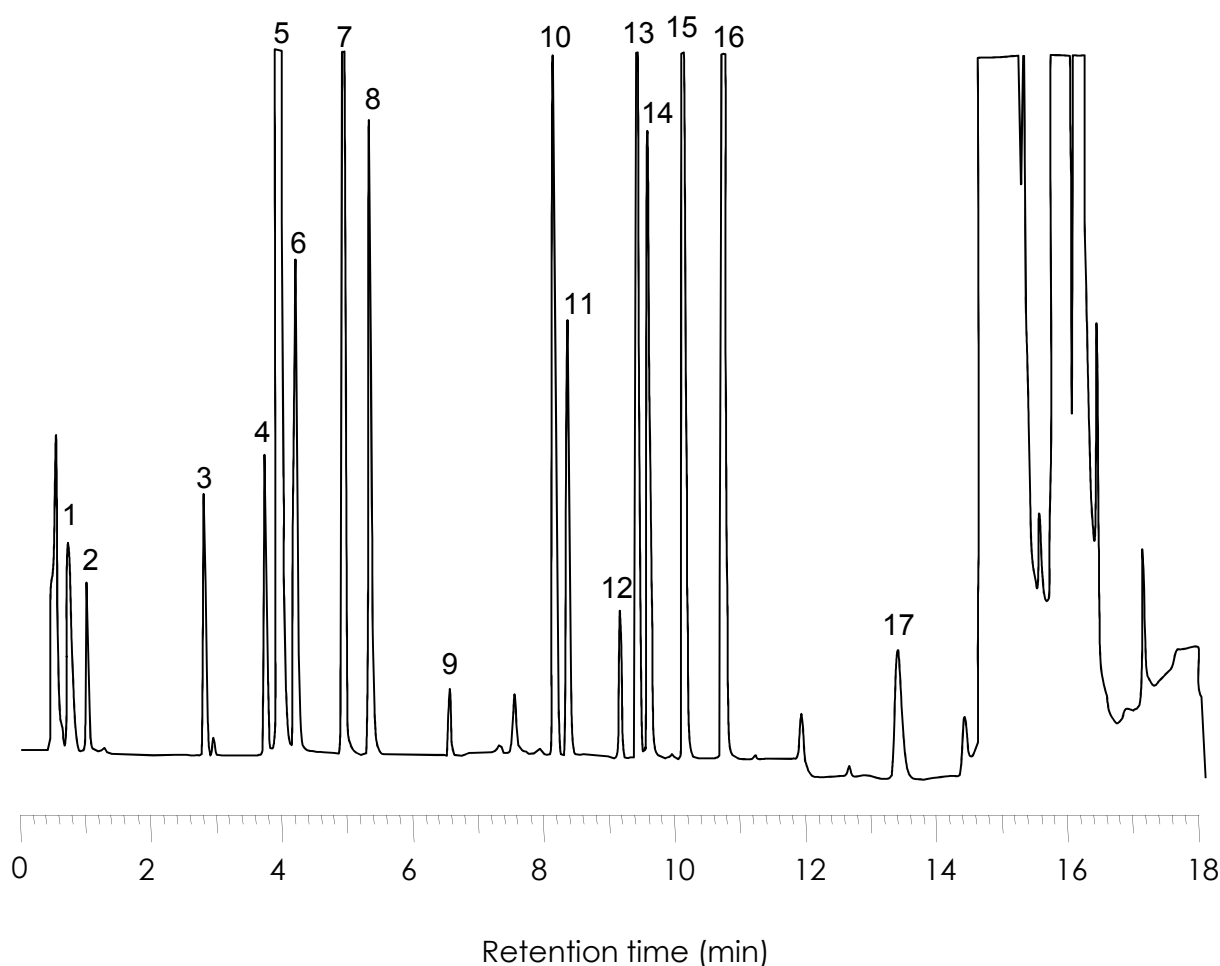
データ提供: 横浜国立大学 金子竹男先生
横浜国立大学機器分析評価センター

Mass spectra of Ile and Leu



OPA誘導体化アミノ酸の分離(2) SunShell C18 2.6 μm , 150 x 2.1 mm i.d.

Amino Acids derivatized with OPA (2)



Column: SunShell C18 2.6 μm , 150 x 2.1 mm

Mobile phase: A) 10mM Na₂PO₄ + 10mM Na₂B₄O₇ + 0.5mM NaN₃ (pH7.8)

B) Acetonitrile/Methanol/Water (45/45/10 %V)

Time(min)	0	0.4	12.8	13.8
%B	5	5	50	100

Flow rate: 0.61 mL/min

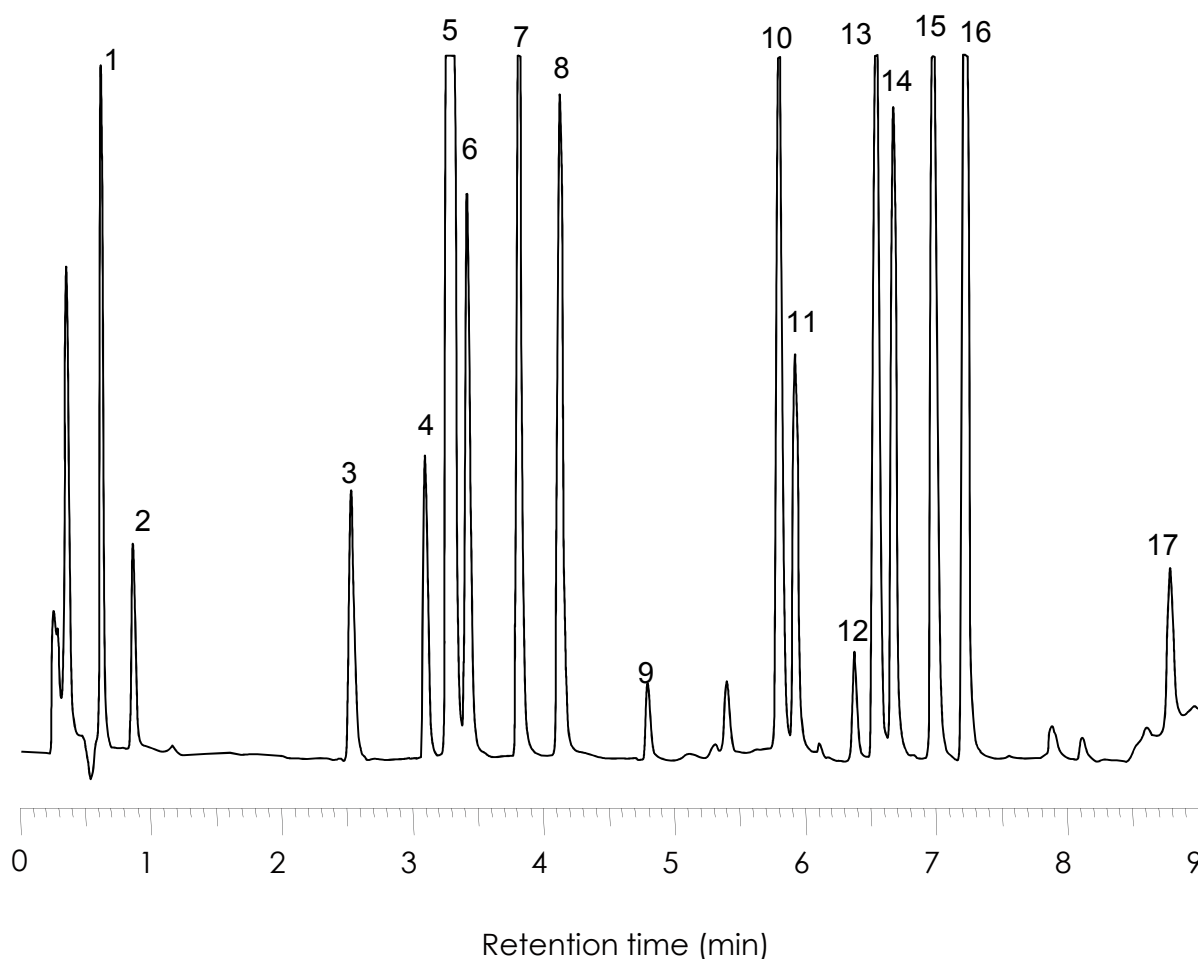
Temperature: 40 °C

Detection: UV@338 nm

Sample: 1=Aspartic acid, 2=Glutamic acid, 3=Serine, 4=Histidine, 5=Glycine, 6=Threonine, 7=Arginine, 8=Alanine, 9=Tyrosine, 10=Valine, 11=Methionine, 12=Tryptophan, 13=Proline, 14=Isoleucine, 15=Leucine, 16=Lysine, 17=Proline

OPA誘導体化アミノ酸の分離(1) Sunniest C18-HT 2 μ m, 100 x 2.1 mm i.d.

Amino Acids derivatized with OPA (1)



Column: Sunniest C18-HT 2 μ m, 100 x 2.1 mm

Mobile phase: A) 10mM Na₂PO₄ + 10mM Na₂B₄O₇ + 0.5mM NaN₃ (pH7.8)

B) Acetonitrile/Methanol/Water (45/45/10 %V)

Time(min)	0	0.2	7.2	7.8
%B	5	5	50	100

Flow rate: 0.72 mL/min

Temperature: 40 °C

Detection: UV@338 nm

Sample: 1=Aspartic acid, 2=Glutamic acid, 3=Serine, 4=Histidine, 5=Glycine, 6=Threonine, 7=Arginine, 8=Alanine, 9=Tyrosine, 10=Valine, 11=Methionine, 12=Tryptophan, 13=Proline, 14=Isoleucine, 15=Leucine, 16=Lysine, 17=Proline