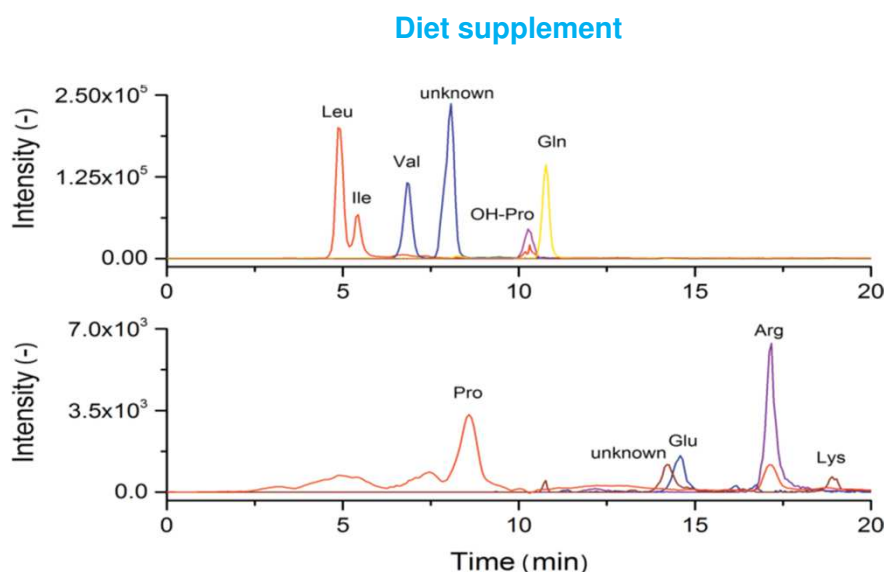
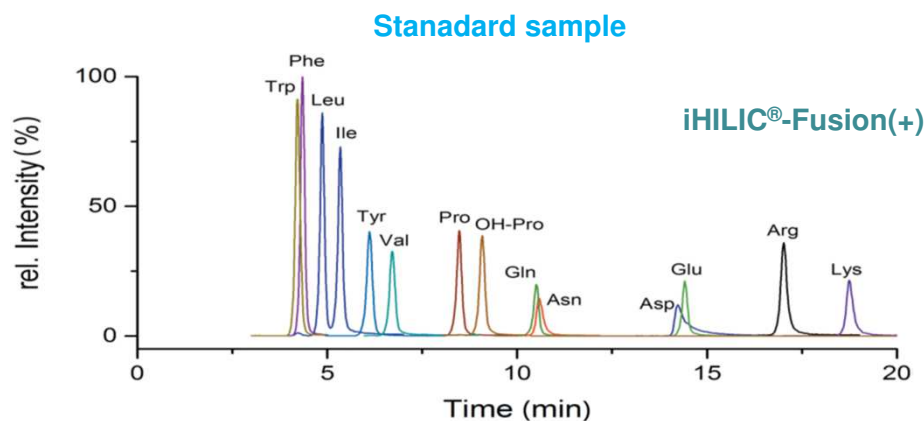


## アミノ酸の分離 (LC/MS) (3)

iHILIC-Fusion(+) 3.5  $\mu$ m, 150  $\times$  2.1 mm i.d.

## Amino acids LC/MS (3)

made by HILICON AB



LC-MS System: Agilent 1100er LC system and Thermo Fisher LTQ<sup>™</sup> equipped with a HESI source, operated in positive ionization mode for analysis of standards. For the dietary supplement, an Orbitrap<sup>™</sup> Exactive classic equipped with a HESI source and operated in positive ionization mode. Column: iHILIC-Fusion(+) 3.5  $\mu$ m 100 $\text{\AA}$ , 150  $\times$  2.1 mm i.d.

Gradient Elution: A) acetonitrile-water-1 M ammonium acetate, pH 5.75 (90:5:5); B) water-acetonitrile-1 M ammonium acetate, pH 5.75 (90:5:5); 0-0.5 min (90:10) A-B; 0.5 to 25 min, gradient elution from (90:10) A-B to (60:40) A-B.

Flow Rate: 0.3 mL/min

Column Temperature: 40  $^{\circ}$ C

Injection Volume: 5  $\mu$ L

Amino Acids: Arginine, asparagine, aspartic acid, glutamic acid, glutamine, hydroxyl-proline, isoleucine, leucine, lysine, phenylalanine, proline, tryptophan, tyrosine, and valine. 50  $\mu$ M of each amino acid was dissolved in water-acetonitrile (25:75) solution.