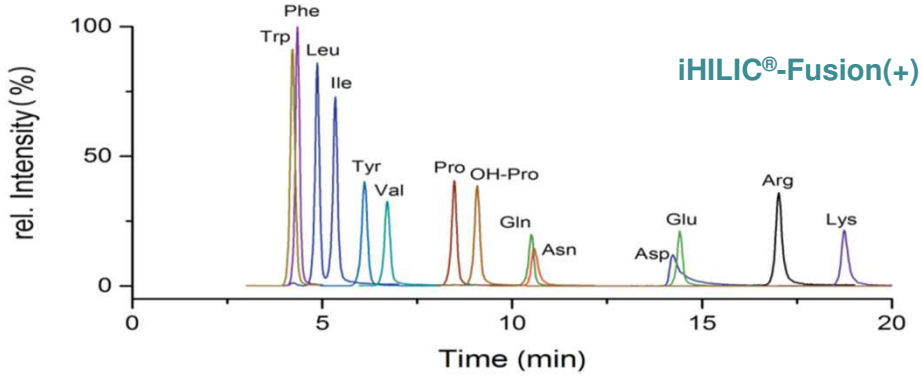
アミノ酸の分離（LC/MS) (3)

iHILIC-Fusion(+) 3.5 µm, 150 × 2.1 mm i.d.

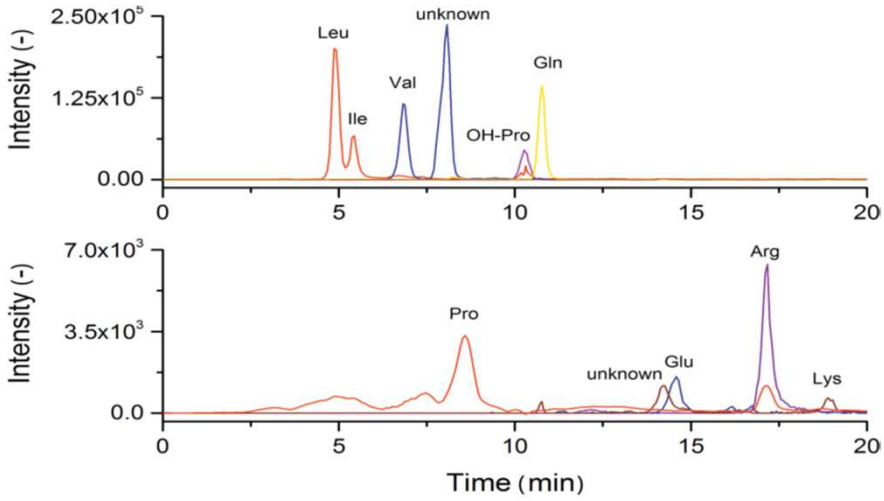
made by HILICON AB

Amino acids LC/MS (3)

Stanadard sample



Diet supplement



LC–MS System: Agilent 1100er LC system and Thermo Fisher LTQ™ equipped with a HESI source, operated in positive ionization mode for analysis of standards. For the dietary supplement, an Orbitrap™ Exactive classic equipped with a HESI source and operated in positive ionization mode.
Column: iHILIC-Fusion(+) 3.5 µm 100Å, 150 × 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 °C
Injection Volume: 5 µL
Amino Acids: Arginine, asparagine, aspartic acid, glutamic acid, glutamine, hydroxyl-proline, isoleucine, leucine, lysine, phenylalanine, proline, tryptophan, tyrosine, and valine. 50 µM of each amino acid was dissolved in water–acetonitrile (25:75) solution.