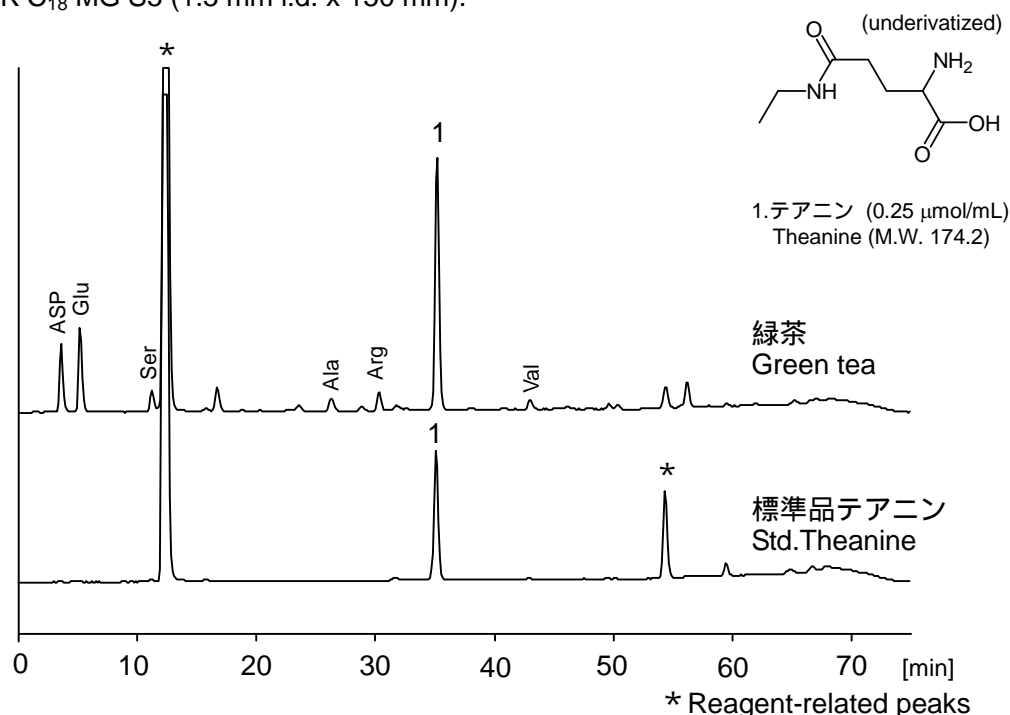


NBD-テアニン

NBD-Theanine

テアニンは緑茶に多く含まれるアミノ酸の一種であり、リラックス効果があると言われています。蛍光誘導体化(NBD化)したテアニンをCAPCELL PAK C₁₈ MG S5 (1.5 mm i.d. x 150 mm) による分析例を示します。

Theanine, one of the amino acids contained in green tea, is known to show relaxing effects. Theanine was fluorescence-tagged with NBD-F, and separated with CAPCELL PAK C₁₈ MG S5 (1.5 mm i.d. x 150 mm).



【HPLC Conditions】

Column : CAPCELL PAK C₁₈ MG S5 ; 1.5 mm i.d. x 150 mm
 Mobile phase : A) 10 mmol/L Citrate buffer (pH 6.2), 75 mmol/L NaClO₄
 B) H₂O / CH₃CN = 50 / 50
 B % 5 % (0.0 min) 10 % (20.0 min) 37 % (40.0 min)
 38 % (45.0 min) 100 % (60.0 min) 100 % (65.0 min)
 5 % (65.1 min) Gradient
 Flow rate : 100 μL/min
 Temperature : 40 °C
 Detection : FL Ex. 480 nm, Em. 530 nm
 Inj. vol. : 1 μL
 Sample dissolved in : Samples were prepared according to the protocol described in the following material.
 1 μg/mL = 1 ppm

弊社 技術資料 *HPLC の NBD-アミノ酸分析*
 Technical note "NBD-Amino Acid analysis"
 (Language: Japanese)