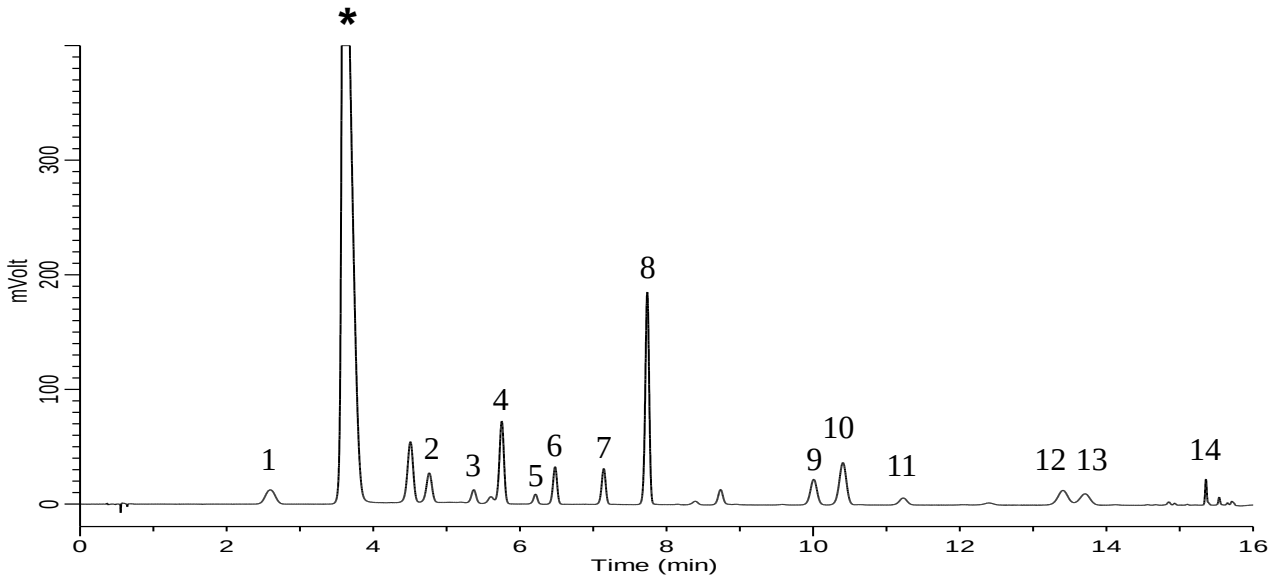
Analysis of NBD-Amino acids



Conditions

System : LC800 HPLC system
Column : Inertsil ODS-4 (5µm, 100 x 2.1 mm I.D.)
Column Cat. No. : 5020-03914
Eluent : A) CH_3CN
B) 20 mM $NH_4H_2PO_4$ (pH 2.5, H_3PO_4)
A/B = 5/95 – 2.5 min – 5/95 – 4.5 min – 25/75 – 6 min – 30/70 – 2 min – 70/30 – 0.1 min – 5/95 – 0.9 min – 5/95 , v/v
Flow rate : 0.6 mL/min
Col. Temp. : 50 ℃
Detection : UV 470 nm (LC800 UV Detector)
Injection Vol. : 5 µL
Sample : NBD-amino acids

Analyte:

1.	Histidine	(His)	40 mg/L
2.	Serine	(Ser)	55 mg/L
3.	Aspartic acid	(Asp)	80 mg/L
4.	Glycine	(Gly)	60 mg/L
5.	Glutamic acid	(Glu)	55 mg/L
6.	Threonine	(Thr)	50 mg/L
7.	Alanine	(Ala)	65 mg/L
8.	Proline	(Pro)	45 mg/L
9.	Methionine	(Met)	50 mg/L
10.	Valine	(Val)	85 mg/L
11.	Cystine	(Cys)	70 mg/L
12.	Isoleucine	(Ile)	45 mg/L
13.	Leucine	(Leu)	45 mg/L
14.	Tyrosine	(Tyr)	40 mg/L

* NBD-F reagent