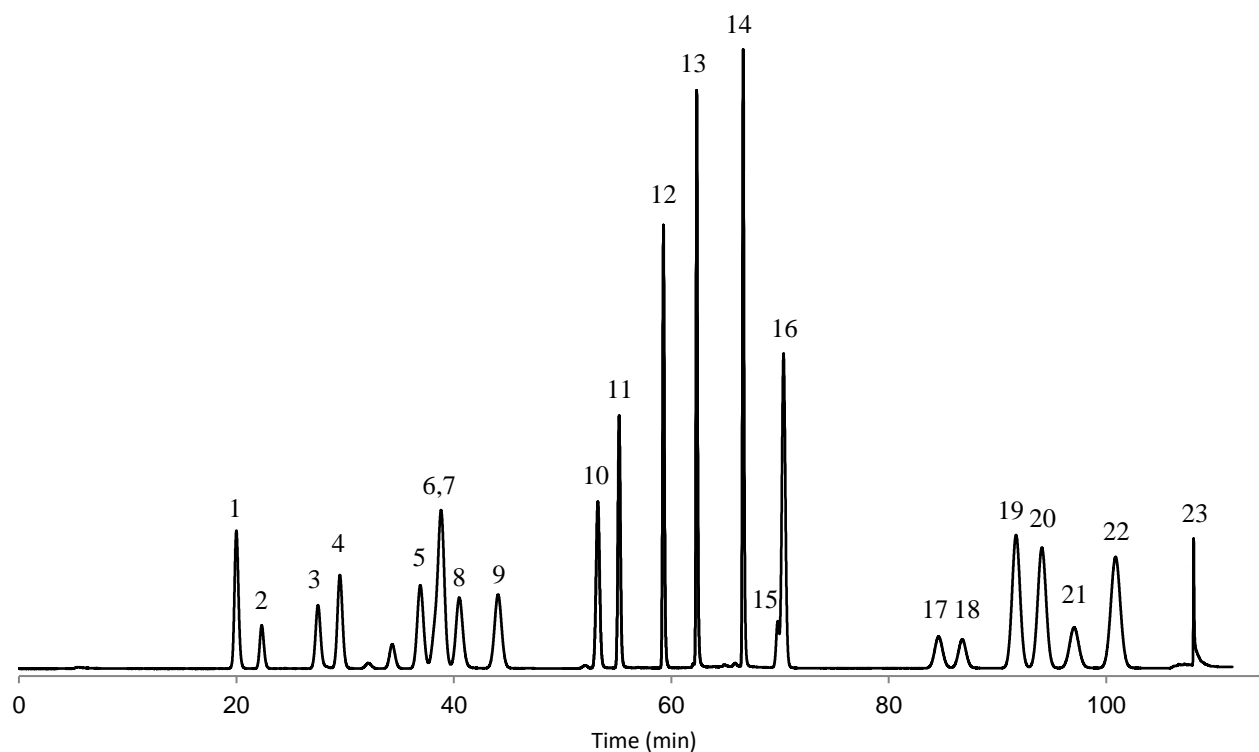


## Simultaneous analysis of 22 amino acids derivatized with 4-fluoro-7-nitro-2,1,3-benzoxadiazole (NBD-F)

The chromatogram was provided by Dr. Makoto Tsunoda,  
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### Conditions

**Column** : Inertsil ODS-4V  
 (5  $\mu$  m, 250 x 3.0 mm I.D.)

**Column Cat. No.** : 5020-10922

**Eluent** : A) H<sub>2</sub>O/CH<sub>3</sub>CN/TFA = 88/12/0.12, v/v/v  
 : B) H<sub>2</sub>O/CH<sub>3</sub>CN/TFA = 12/88/0.12, v/v/v  
 A/B = 100/0 - 42 min - 100/0 - 18 min - 60/40 -  
 - 5 min - 75/25 - 35 min - 75/25 - 2 min - 0/100 -  
 - 10 min - 0/100, v/v

**Flow rate** : 0.4 mL/min

**Col. Temp.** : 32.5 °C

**Detection** : FL Ex 470 nm Em 530 nm

**Injection Vol.** : 2  $\mu$  L

**Sample** : Standard solution derivatized by NBD-F

### Analyte:

NBD- amino acids, 3.7  $\mu$  mol/L each

- |                   |                                               |
|-------------------|-----------------------------------------------|
| 1. Histidine      | 13. Proline                                   |
| 2. Asparagine     | 14. $\epsilon$ -amino- <i>n</i> -caproic acid |
| 3. Glutamine      | 15. Methionine                                |
| 4. Serine         | 16. Valine                                    |
| 5. Arginine       | 17. Cystine                                   |
| 6. Citrulline     | 18. Ornithine                                 |
| 7. NBD-OH         | 19. Isoleucine                                |
| 8. Aspartic acid  | 20. Leucine                                   |
| 9. Glycine        | 21. Lysine                                    |
| 10. Glutamic acid | 22. Phenylalanine                             |
| 11. Threonine     | 23. Tyrosine                                  |
| 12. Alanine       |                                               |