InertSearch™ for LC

Inertsil® Applications

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

Data No. LL008-0000

The chromatogram was provided by Dr. Makoto Tsunoda,
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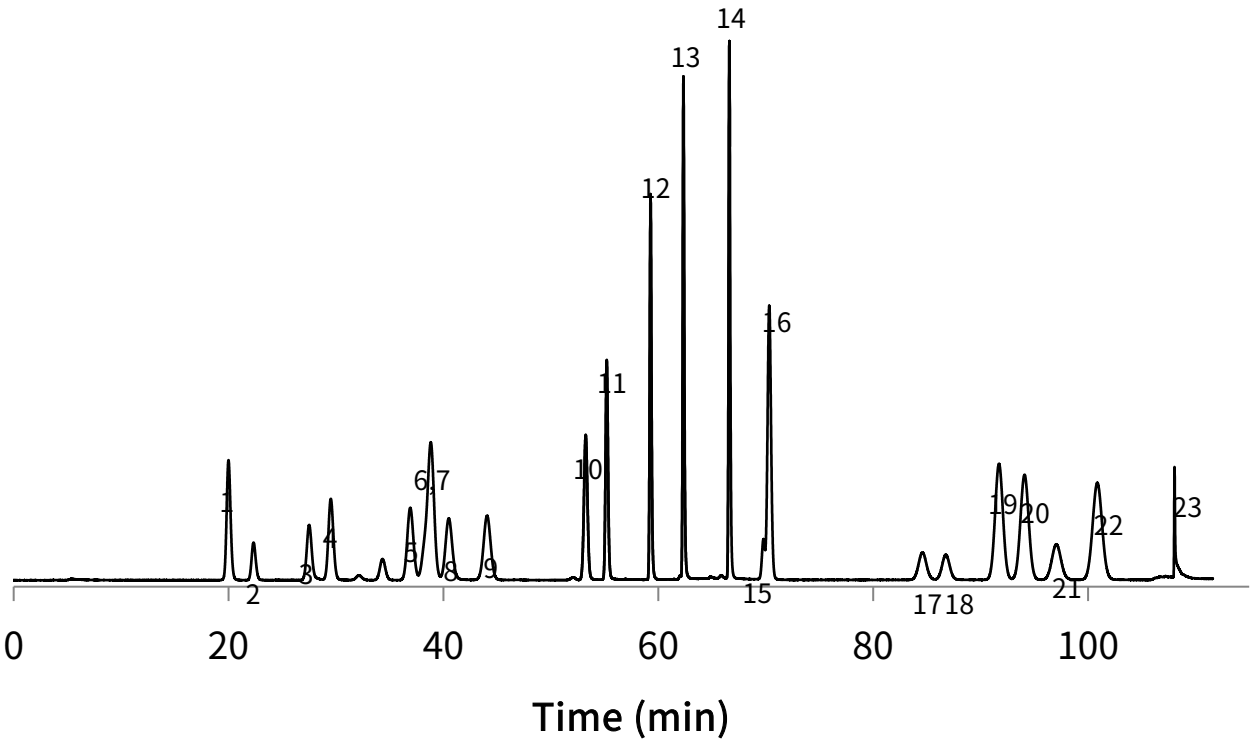

Conditions

Column : Inertsil ODS-4V (5 µm, 250 x 3.0 mm I.D.)
Column Cat. No. : 5020-10922
Eluent : A) $H_2O/CH_3CN/TFA$ = 88/12/0.12, v/v/v
: B) $H_2O/CH_3CN/TFA$ = 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 µL
Sample : Standard solution derivataized by NBD-F

Analyte:

NBD- amino acids, 3.7 µmol/L each

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