

Determination of Amino acids with OPA

Method
HPLCVPH0010J
RP Mode**Column:** ProntoSIL 120-3-C18 H, 250 x 3.0 mm ID**Order No.** 25CF185PSG**Phase:** ProntoSIL 120-3-C18 H**Sample Preparation:** Amino Acid standard with OPA precolumn derivatization

Conditions:

Eluent: A: 20 mM CH₃COONa in Water / ACN, (97:3)
B: 20 mM CH₃COONa in Water / ACN, (50:50)

Gradient: 5 – 28 % B, 0 – 144 s
28 – 45 % B, 145 – 560 s
45 – 82 % B, 561 – 896 s
82 – 90 % B, 897 – 1215 s

Flow rate: 0.6 ml/min
Temperature: 30 °C
Volume: 1 µl

Detection: Fluorescence: excitation 330 nm emission 450 nm
UV at 330 nm

Substances: Aspartic acid, Glutamic acid, Serine, Glutamine, Histidine, Glycine, Threonine, Arginine, Alanine, Tyrosine, Methionine, Valine, Phenylalanine, Isoleucine, Leucine, Lysine

Keywords: Amino acids, Precolumn derivatization , OPA

Chromatogram:

1. Asp
2. Glu
3. Ser
4. Gly
5. Thr
6. His
7. Ala
8. Arg
9. Tyr
10. Val
11. Cys
12. Met
13. Ile
14. Phe
15. Leu
16. Lys

