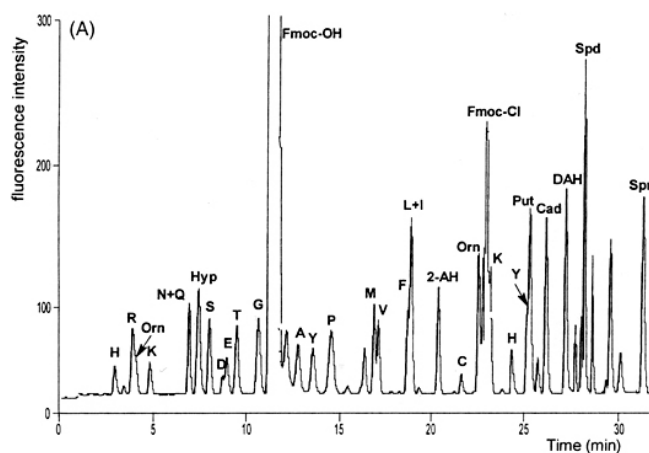


Application Number 119550
 Method HPLC
 Results

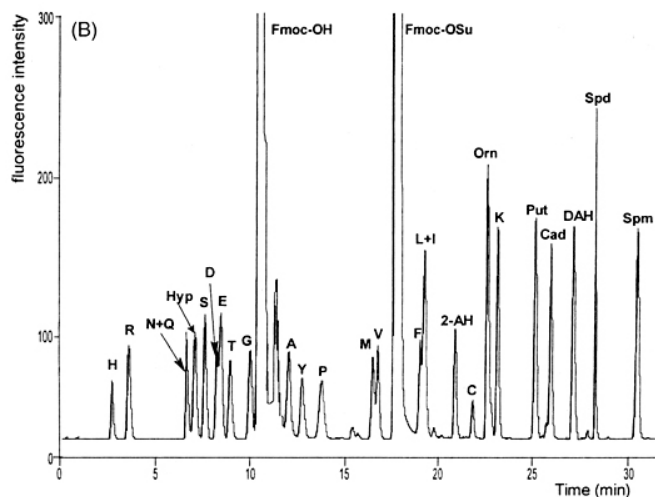


Legend:

5 µM standard solution of amino acids and polyamines after derivatisation with
 (A) Fmoc-Cl and (B) Fmoc-OSu

H His histidine
 R Arg arginine
 N Asn asparagine
 Q Gln glutamine
 Hyp hydroxyproline
 S Ser serine
 D Asp aspartic acid
 E Glu glutamic acid
 T Thr threonine
 G Gly glycine
 A Ala alanine
 P Pro proline
 T Tyr tyrosine
 M Met methionine
 V Val valine
 F Phe phenylalanine
 L Leu leucine
 I Ile isoleucine
 2-AH 2-aminoheptanoic acid
 C Cys cysteine
 Orn ornithine

- K Lys lysine
- Put putrescine
- Cad cadaverine
- Spd spermidine
- DAH 1,7-diaminoheptane
- Spm spermine



Substances

histidine; arginine; asparagine; glutamine; hydroxyproline; serine; aspartic acid; glutamic acid; threonine; glycine; alanine; proline; tyrosine; methionine; valine; phenylalanine; leucine; isoleucine; 2-aminoheptanoic acid; cysteine; ornithine; lysine; putrescine; cadaverine; spermidine; 1,7-diaminoheptane; spermine

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Matrix

Sample(s)

Derivatization by Fmoc-Cl and Fmoc-OSu (Details please see literature)

Conditions	<p>Eluent: A) 5 mM dibutylamine containing 5% (v/v) acetonitrile, adjusted to pH 2.20 with orthophosphoric acid; B) acetonitrile / eluent A, 95 / 5% (v/v), pH 2.20</p> <p>Gradient: 72% A for 2 min, 72 -> 62% A in 3 min, 62% A for 2 min, 62 -> 57% A in 6 min, 57 -> 49% A in 2 min, 49% for 3 min, 49 -> 37% A in 3 min, 37 -> 20% A in 4 min, 20 -> 0% A in 1 min, 0% A for 5 min, 0 -> 72% A in 1 min</p> <p>Flow rate: 1.5 mL/min</p> <p>Temperature: room temperature</p>
Detection	Fluorescence: ex. 262 nm, em. 630 nm
Note	
Author	Lozanov, V. et al.
Source	J. Chromatogr. A 1025 (2004), 201-208
Disclaimer	Concerning questions to literature applications please contact the cited author/s. Chemicals mentioned in applications are not manufactured or sold by MACHEREY-NAGEL. Applications mentioned in MACHEREY-NAGEL literature or databases are provided for informational purposes only. MACHEREY-NAGEL does not warrant that all applications have been tested in MACHEREY-NAGEL laboratories using MACHEREY-NAGEL products. MACHEREY-NAGEL does not warrant the correctness of the applications.

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