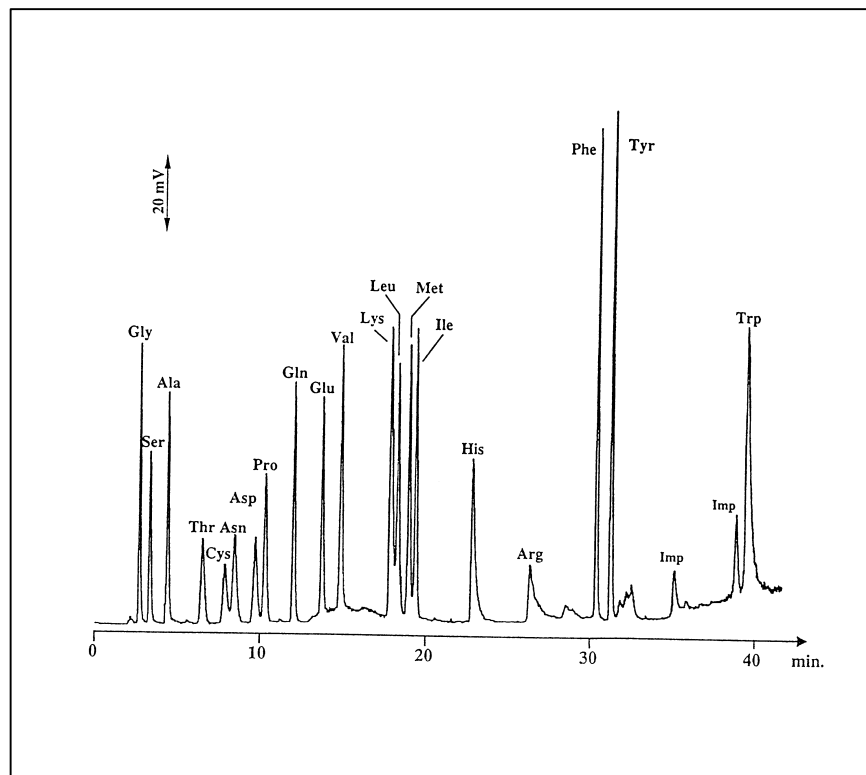


Analysis of twenty underivatized amino acids with ELSD



Amino acids are among the most important class of natural compounds involved in many important physiological processes. Except phenylalanine, tryptophan and tyrosine, amino acids lack in suitable chromophore. Therefore, pre or post derivatization method is needed to allow an efficient classic UV detection or UV fluorescence detection. Also the detection of underivatized amino acid could be carried out with success with ELSD. The analysis of these twenty amino acids is achieved on porous graphitic carbon column (hypercarb). The chromatographic separation is achieved with HPLC gradient elution with nonafluoropentanoic (NFPA) as ion pairing reagent.

Chromatographic conditions :

Column : Hypercarb (100x2.1 mm)

Flow Rate : 0.2 ml/mn

Mobile phase A : H₂O (NFPA 20 mM)

Mobile phase B : ACN

Evaporation nebulization : 25°C

Evaporation temperature : 40°C

Pressure : 1.8 Bars

Injected quantity : 100 pmol

Journal of chromatography A, 870 (2000) 245-254

Gradient:

T	0	40	41	42
A%	75	0	0	75
B%	25	100	100	25

EUROSEP Instruments

Tel. : +33(0)1 34 22 95 22 - Fax : +33(0)1 34 22 95 32

E-Mail: eurosep@eurosep.com - Internet <http://www.eurosep.com>