HPLC application note

Determination of Amino Acids in Wine Samples by Precolumn Derivatisation using the FMOC Procedure

Abstract

The application, 'Amino Acid Analysis by Precolumn Derivatisation using a New FMOC Procedure' was used for the amino acid analysis of wine samples, supplied by a local vineyard. This method does not require any solvent extraction or incubation and gives stable single adducts.

Keywords:
Amino Acid, AMINOMATE, Automated Precolumn Derivatisation, FMOC, wine

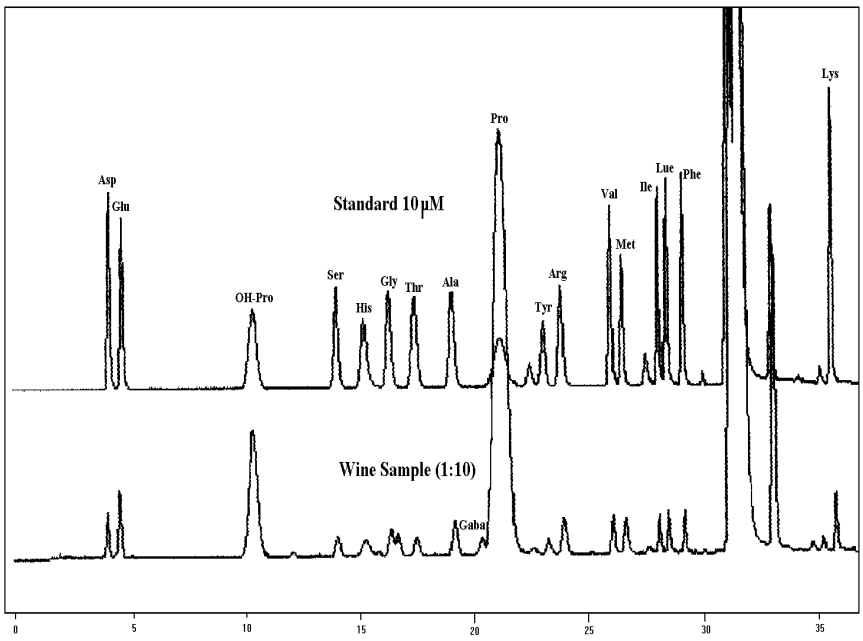
'...this method does not require any solvent extraction or incubation and gives stable single adducts...'

Sample Preparation

Diluted wine sample (1:10) with derivatisation (diluent) buffer, and filtered.

Conditions

Column:	Hypersil Column for Amino Acid Analysis, 150 x 4.6 mm ID
Fluorescence Detector:	
Ex:	270 nm
Em:	316 nm
Equilibration:	5 minutes
Flow Rate:	1.00 ml/min
Temperature:	38ºC
Injection Vol.:	5 µl



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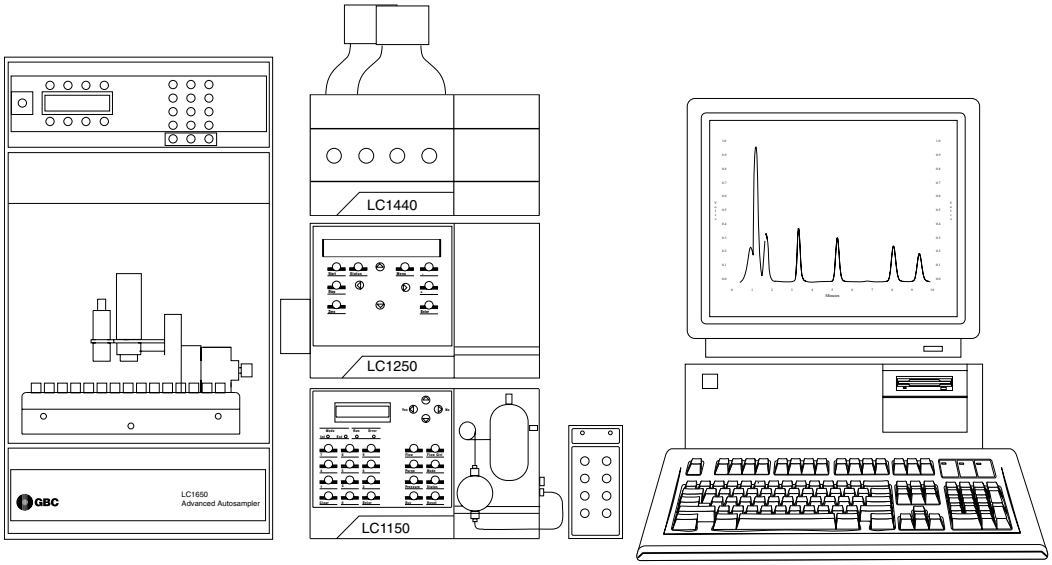
01-0346-00

GBC HPLC Instrumentation

LC1150 Quaternary Gradient Pump
LC1120/1150 Online Degasser
LC1250 Fluorescence Detector
LC1650 ACSIS Advanced Autosampler
WinChrom 1-2 Data Management System*

(*plus compatible 486 PC & accessories)



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GBC Scientific Equipment Pty Ltd
A.C.N. 005 472 686
12 Monterey Road, Dandenong, Victoria, 3175, Australia
Phone: (03) 9213 3666 Fax: (03) 9213 3677

GBC publication number 01-0346-00
September, 1995