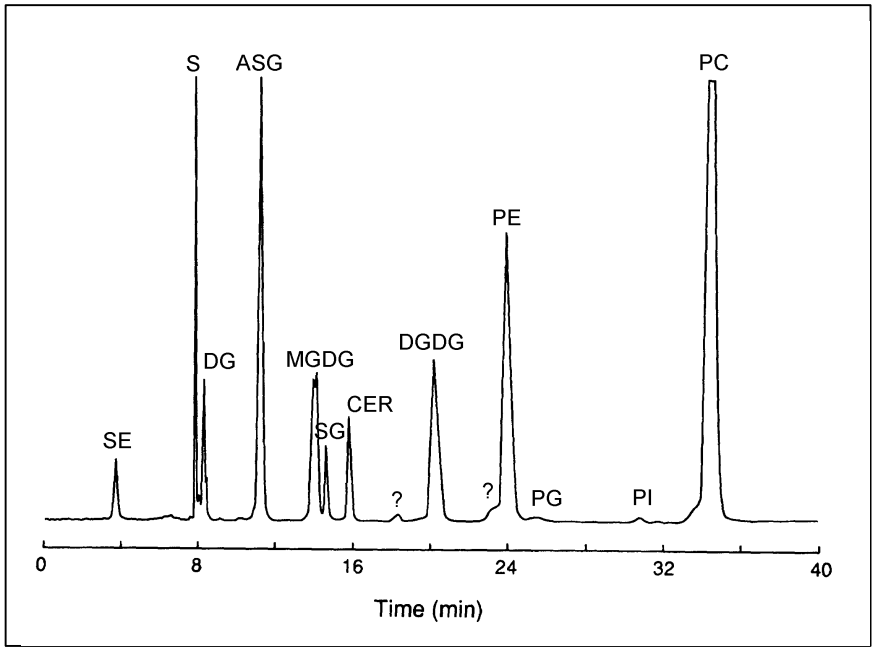
DDL 31 *Applications* N° 13

SEPARATION OF LIPID CLASSES FROM PLANT TISSUES



William W. Christie & R. Anne Urwin- J. High Resol. Chromatogr., Vol.18, Feb. 1995

The authors have selected a new phase as excellent resolution of acidic lipids between PE and PC was achieved.

The most important non-polar lipids, simple (free and esterified sterols, tri and diglycerides) and more (steryl and acylsteril glycosides) complex are well separated ahead of glycolipids (glycero- or sphingolipids) and phospholipids.

Chromatographic conditions :

Column : YMC PVA-Sil (250 x 4,6 mm 3µm).

Mobile Phase : Gradient separation of :

A - isooctane/methyl ter-butyl ether (98/2)

B - isopropanol/ACN/CH_3Cl/AcOH(84/8/8/0,025)

C - propanol-1/water/triethylamine (50/50/0,2)

ELSD Temperature : 35°C

Compounds

S: Sterols	SE:Sterol Esters	SG: Steryl glycosides
MGDG:Monogalactosyldiacylglycerols		DGDG:Digalactosyldiacylglycerols
PE:Phosphatidylethanolamine		PG : Phosphatylglycerols
PC:Phosphatidylcholine		ASG : Acylsterylglycosides
PI:Phosphatidylinositol		DG : Diacylglycerol
PG : Phosphatidylglycerol		CER:Cerebrosides

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