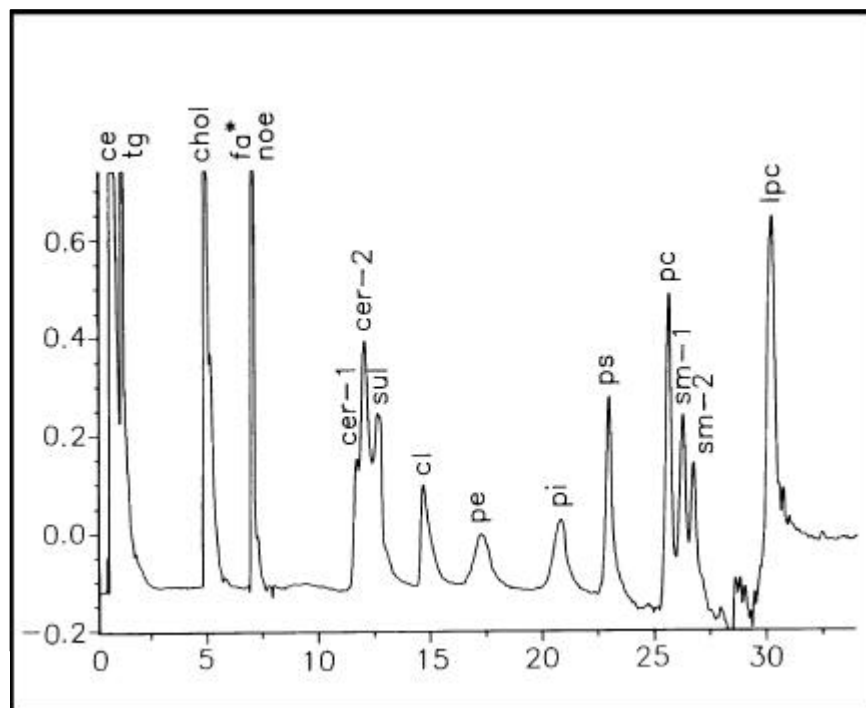


SEPARATION OF LIPID CLASSES FROM ANIMAL TISSUS



Separation of lipids classes with S3W Spherisorb column, adapted from Lutzke B.S and al., *J.Lipid Res.* 1990, 31, 2127.

The separation of the various simple and complex lipids present in natural extracts is easily managed through a gradient elution procedure while less complicated lipid mixtures can be analysed using isocratic elution techniques. The non-specific light scattering detector enables the quantification of apolar and polar lipids in the same run eluting the silica gel column with a hexane-based mixture to an acetonitrile-water mixture or any combination of solvents with similar polarity.

Chromatographic conditions :

Column : S3W Spherisorb, 10 cm x 4.6 mm, silica Phase SEP

Mobile Phase : Gradient separation of :

A - Iso-octane/THF (99/1).

B - Isopropanol/chloroform (4/1).

C - Isopropanol/water (1/1).

Flow Rate : Gradient from 1,5ml to 2 ml/min

ELSD Temperature : 35°C

Compounds:

CE:Cholesterol ester	TG:Triglycerides	CL:Cardiolipin
CER:Cerebrosides	PE:Phosphatidylethanolamine	FA : Fatty acid (not shown *)
PC:Phosphatidylcholine	PI:Phosphatidylinositol	PS:Phosphatidylserine
SM:Sphingomyeline	LPC:Lysophosphatidylcholine	CHOL : Cholesterol
SUL : Sulfatide	NOE : n-oleylethanolmine	

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