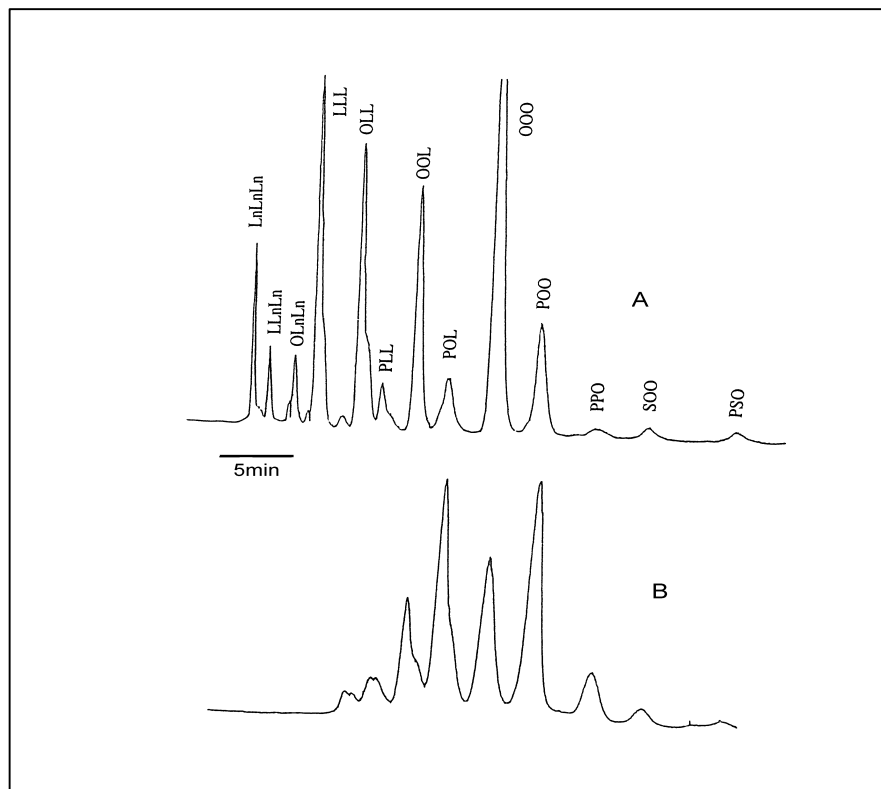


SEPARATION OF VEGETABLE AND HUMAN TRIGLYCERIDES



Separation and Quantification of Lipids by HPLC with Special reference to Light-Scattering Detector C. LERAY

The separation and the detection of the lipids remain the most important problem for lipodologists.

DDL 31 is the appropriated detector for lipid determination. In opposite to UV detection, ELSD detection has no problem of cut off caused by organic solvents at 210 nm. Moreover the use of gradient does not involve any baseline drift. Detection limit is in the ng range.

Chromatographic conditions :

Column : LiChrosorb RP18(250x4.5 mm, 5 µm, Merk)

Mobile Phase : ACN/dichloromethane(60/40)

Flow Rate : 1 ml/min

ELSD Temperature : 35°C

Compounds:

A : Standard mixture of several vegetal oils.

B : Extract of human adipose cells.

L : Linoleic acid

Ln : Linolenic acid

O : Oleic acid

P : Palmitoleic acid

St : Stearic acid

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