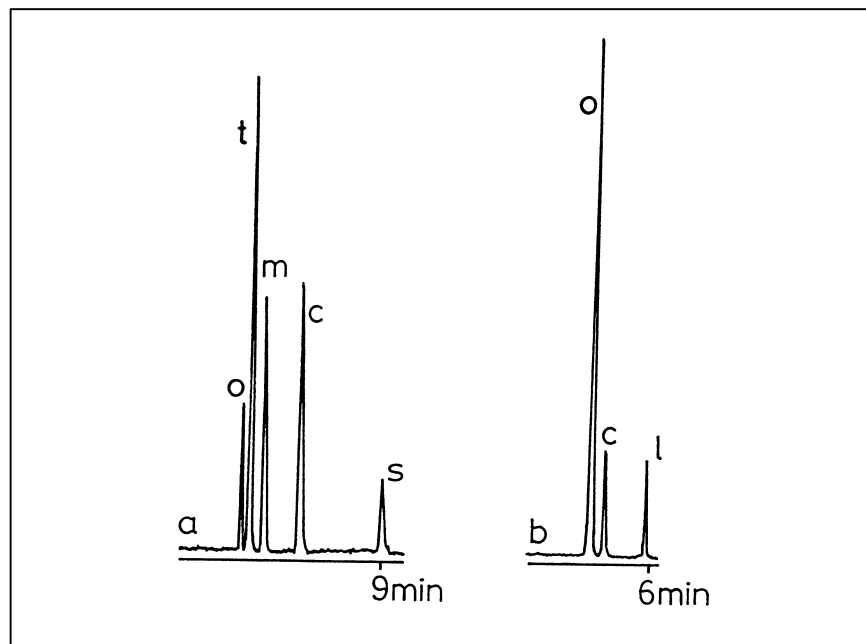


DIACID ANALYSIS BY HPLC WITH ELSD



Laposse, Elfakir, Morin-Allary, Dreux

Evaporative Light Scattering Detection in HPLC and SFC, J. of High Resolution Chromatography, Vol. 15, May 1992.

The saponins, vegetable extracts are molecules with biological properties useful in hair-care preparations.

Owing to the presence of an acid function in the sugar part of the molecule, it is necessary to suppress ionization by addition of an acid as acetic acid to the eluent. If the acid has to be removed after analysis, TFA is to be preferred as this acid can be removed by evaporation at a temperature which is not high enough to cause degradation of the solutes.

Chromatographic conditions :

Column : PLRPS, 150x4.6 mm, 5 μ m.

Mobile Phase : Gradient separation of :

A - 5 mM of aqueous TFA

B - 5 mM of aqueous TFA/AcCN (90/10)

Flow Rate : 0.6 ml/min

ELSD Temperature : 45°C

Compounds

O - Oxalic Acid

T - Tartric Acid

M - Maleic Acid

C - Citric Acid

L - Lactic Acid

S - Succinic Acid

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