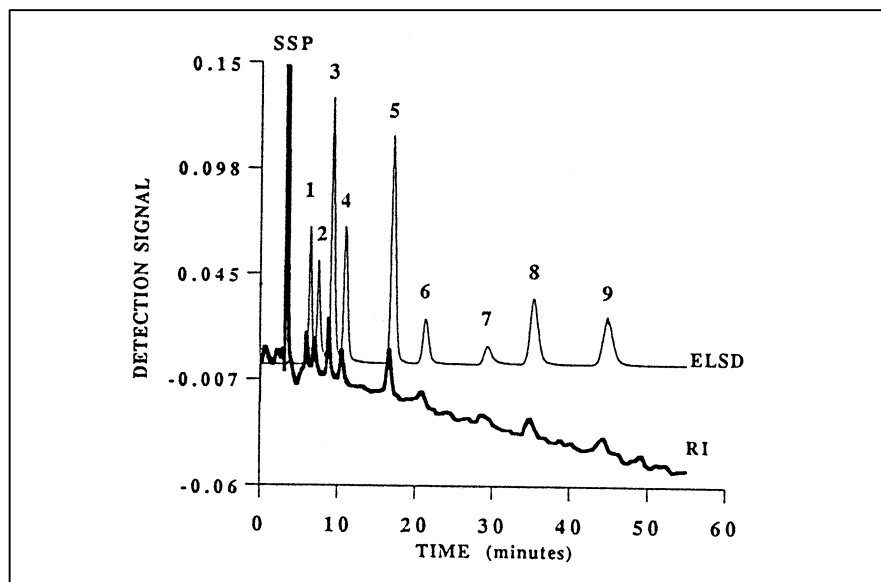


IDENTIFICATION OF SUGARS BY HPLC USING ELSD AND RI



- 1: Rhamnose 2: Xylose 3: Fructose 4: Glucose
5: Sucrose 6: Maltose 7: Melibiose 8: Melezitose
9: Raffinose

A. Clement; D. Yong and C. Brechet, *Journal of Liquid Chromatography*

Sugars extracted from biological tissues can be identified using a number of analytical techniques. GC and HPLC are well suited to analyse. According to the kind of sugars, several types of columns are employed. Until recently the most popular chromatographic detection system was RI. But refractometry has many limitations : control and regulation of the temperature, low sensitivity, and no possibility to use gradient elution. Thus ELSD is a good choice.

Chromatographic conditions :

Column : Shodex Asiapak NH₂P-5

Mobile phase : ACN/H₂O (80/20)

Flow Rate : 1 ml/min

ELSD Temperature : 40°C

EUROSEP Instruments

Tel. : +33(0)1 34 22 95 22 - Fax : +33(0)1 34 22 95 32

E-Mail: eurosep@eurosep.com - Internet <http://www.eurosep.com>