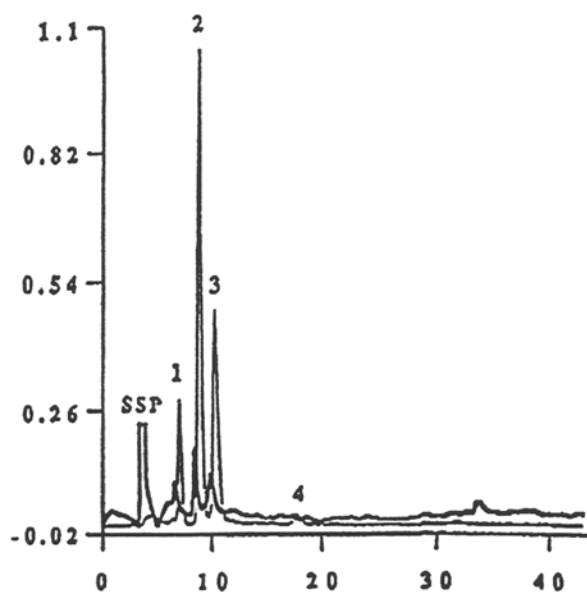


# SEDEX Low Temperature Evaporative Light Scattering Detector

SAMPLE: SUGARS (IN DOUGLAS FIR NEEDLES) HPLC

Simultaneous detection { SEDEX 45  
RI



| Sugars and related Compounds* |                              | Retention time E.S.D. (minutes) | Concentration (μmoles) |
|-------------------------------|------------------------------|---------------------------------|------------------------|
| SSP                           | Sample Solvent Peak, (water) |                                 |                        |
| 1 ---                         | Unknown                      | 7.1                             | ---                    |
| 2 C6 + C6 (CH3)               | Fructose + Pinitol*          | 8.8                             | ( 0.32 + 0.27 )        |
| 3 C6                          | Glucose                      | 10.3                            | 0.33                   |
| 4 C6                          | Inositol*                    | 17.8                            | 0.03                   |

\*\* ( calculated from separation on CH-Pb )

## CONDITIONS

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Cartridge       | <i>Lichrosorb RP-18 5 μ (Merck) 60 mm</i>          |
| Column          | <i>Lichrospher 100 NH<sub>2</sub> 5 μm (Merck)</i> |
|                 | <i>Cartridge Lichrocart</i>                        |
|                 | <i>250 x 4.8 mm, Bio-Rad Ref 1250095</i>           |
| Injected Volume | <i>20 μl</i>                                       |
| Eluent          | <i>Acetonitrile/Water (80/20)</i>                  |
| Flow Rate       | <i>1.0 ml/min</i>                                  |
| Temperature     | <i>Column 25° C</i>                                |
| RI Detector     | <i>Knauer (gamme 4)</i>                            |
| ELS Detector    | <i>SEDEX 45, Gain 6, Temperature 40° C</i>         |
|                 | <i>Pressure 2.3 bars</i>                           |

Analyzed by : INRA-CNRF Champenoux 54820 Seichamps FRANCE