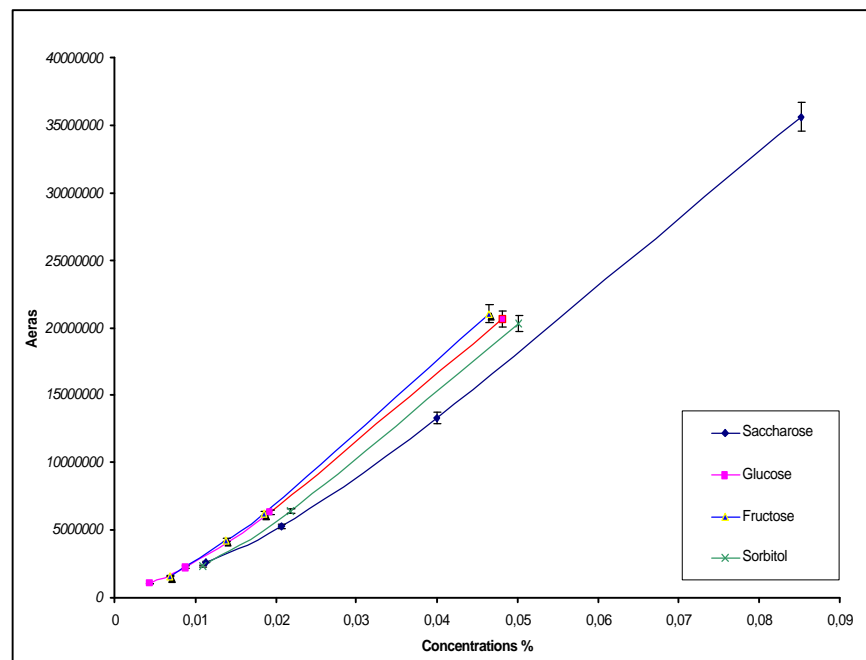


Comparison of ELSD Response Factors of four Carbohydrates.



ELSD response curve for 4 carbohydrates (data Eurosep Instruments 2001).

ELS detectors are said universal detectors. It is why some people in pharmaceutical industry use this kind of detector to obtain a fingerprint of synthesized compounds and to determine the purity of these products, for example in the field of combinatorial chemistry. Also we decide to improve this specificity. We compared the ELSD mass response factors of four different carbohydrates (one C₅, one C₆, one polyol and one dimer). The calibration curves are shown for each carbohydrates in the figure. Calibration curves have a close shape, so it is possible to deduct that ELSD mass response factor for these four carbohydrates are closer.

Chromatographic conditions :

Column : Shodex Asahipak NH2P-50 4E

Flow Rate : 1 ml/mn

Mobile phase : CH₃CN/H₂O (75/25)

Nebulization temperature : 30°C

Evaporation temperature : 35°C

Pressure : 1 Bar

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