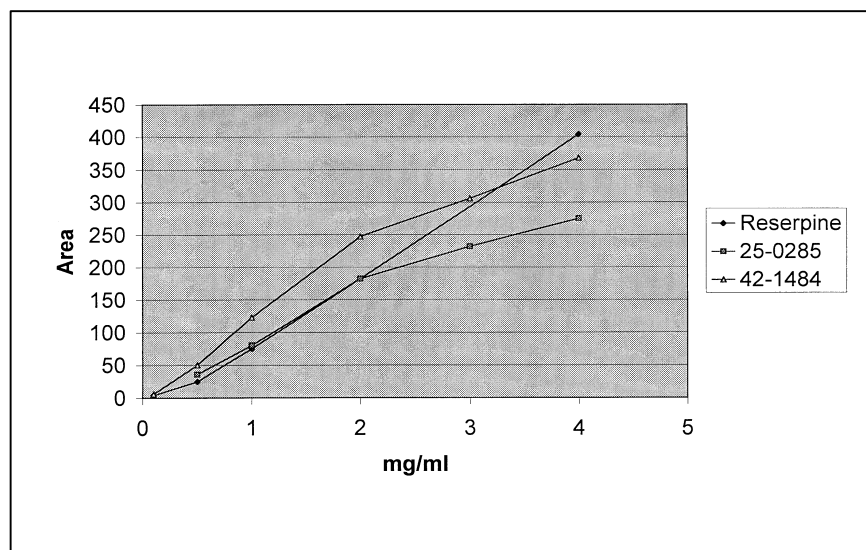


## Comparison of the ELSD response for three compounds in the field of combinatorial chemistry



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The quantification of unknown compounds synthesized by either combinatorial or parallel synthesis cannot be carried out, due to their detection specificity, with MS or UV detection. Thus universal ELSD detection is a good hyphenated analytical instrument to quantify these products. Moreover this kind of detection allows the use of elution gradient.

To estimate the universal response of the ELSD detection, we had carried out the measurement of three product responses in the field of combinatorial chemistry. The ELSD detection was hyphenated with UV and MS-MS detection. We can show that for a wide range of concentration, the three product responses are close. Therefore these results confirm that the ELSD detection is the better detection to use to quantify unknown products.

### Chromatographic conditions :

Column : Inertsil ODS2 100x4.6mm

Injection Volume : 10 $\mu$ l

Flow Rate : 1,5 ml/min

Mobile Phase : A: H<sub>2</sub>O (0,01%TFA) ; B: ACN(0,01%TFA)

Gradient:

Time	0	7.5	8.5	8.8	9.3
B%	5	100	100	5	5

Nebulizer temperature : 50°C

Evaporation temperature : 55°C

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