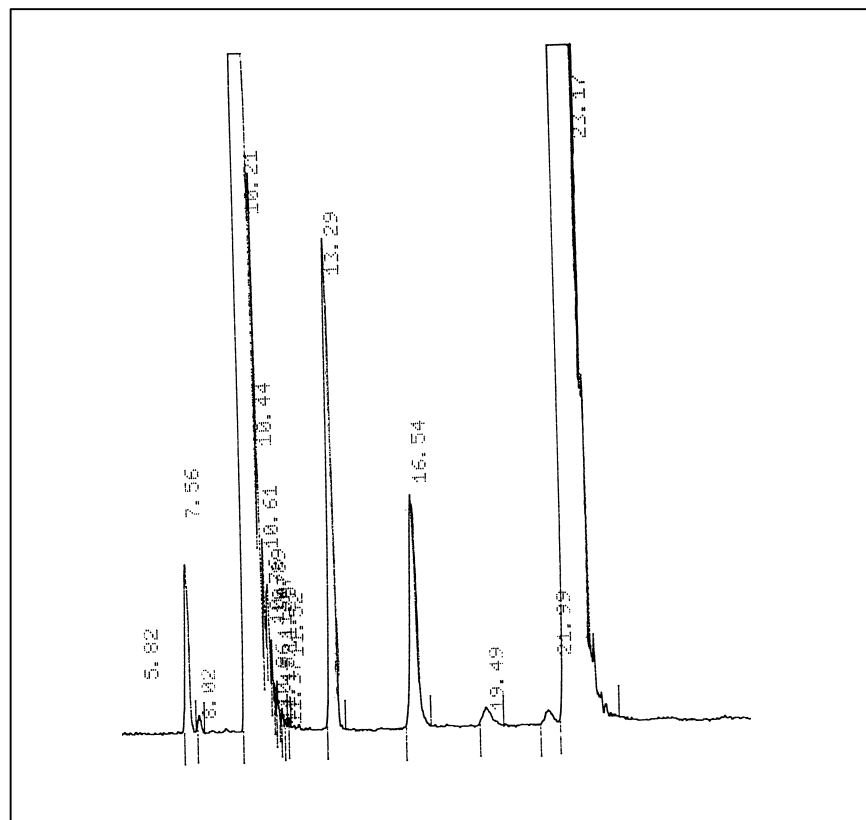


Analysis of synthesis compound in the field of pharmaceutical industry.



DDL 31 EUROSEP Instruments 2000

In the field of pharmaceutical industry, the determination of purity of each new synthesis compound is an essential step in the process of elaboration of new medicines. The knowledge of purity level is needed to determine and optimize the quality of each synthesis compound purification. The UV compound absorbance is in relationship with presence of suitable chromophore in its molecular structure. Therefore without standard, it is impossible and acceptable to characterize the purity of the synthesis sample with only UV detection. Compound ELS response is in direct relationship with their injected mass, in this case we have a good accuracy of synthesis sample purity.

Chromatographic conditions :

Column : Symetry SC8 (250 x 4,6 mm, 5µm) Waters (30°C)

Flow Rate : 1 ml/mn

Mobile phase A : H₂O (NH₄⁺ 0.02 M ; pH=5.2)/ACN (70/30)

Mobile phase B : H₂O (NH₄⁺ 0.02 M ; pH=5.2)/ACN (50/50)

Evaporation nebulization : 25°C

Evaporation temperature : 40°C

Pressure : 1.8 Bars

Gradient:

T	0	40	41	42
A%	75	0	0	75
B%	25	100	100	25

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