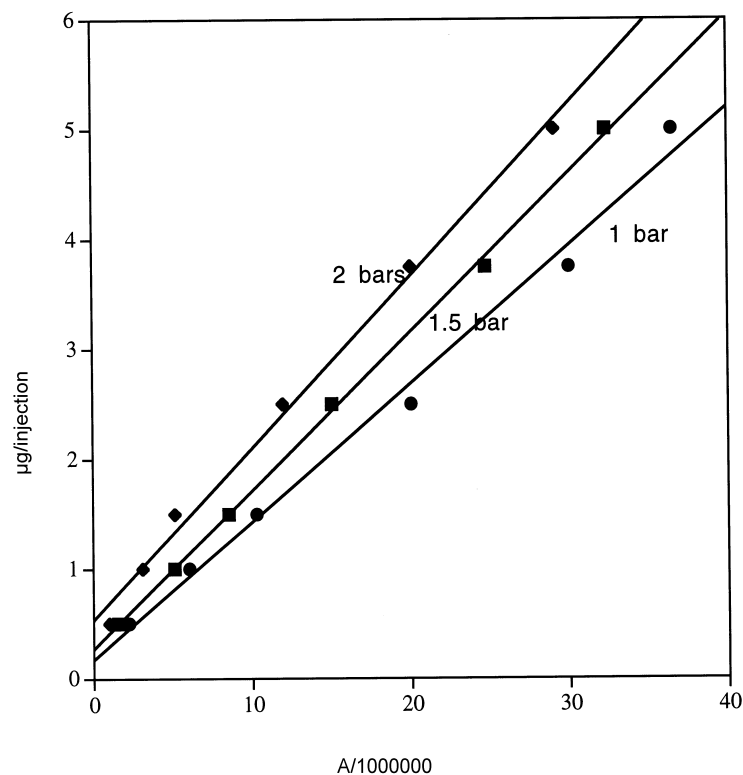


## QUANTIFICATION OF MONO AND DIGLYCERIDES IN NATURAL OILS



Calibration curves in double logarithmic coordinates,  
adapted from Liu and al., JAOCS, 1993, 70, 343-347.

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The authors demonstrated that the response curves of three diglycerides (1,3-dipalmitine, 1,3-distearin and 1,3-dilinolien) were similar to each other from 0.25 to 25 µg per injection. This was also true for the three monoglycerides (mono-olein, -palmitin and -stearin). The response of the two types of glycerides were not linear, a linear log/log calibration curve was thus established ( $r^2=.996$ ). The quantitation limit was for both types .25 µg and the detection limit was .06 µg.

### Chromatographic conditions :

*Column* : Chromegasphere Si-60 ,  
100x4.6 mm, 10 µm.

*Mobile Phase* : Binary gradient containing  
Hexane, isopropanol, ethyl acetate and formic  
acid.

*Flow Rate* : From 2.0 ml/min.

*Evaporation Temperature* : 60°C.

*Sample* :

Left Panel: 1,3-dipalmitin/-distearin/-dilinolein

Right Panel: 1-monopalmitin/-monostearin/-  
monoolein