

***Matricaria chamomilla* L.**

(2010 / 4 / 26 2009 / 11 / 5)

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High-Performance Liquid

Apigenin

TLC
Chromatography (HPLC)

3.5

2.3

Isolation and Identification of Active Compounds from Tissue, Cell Cultures and Extracts of Chamomile (*Matricaria chamomilla* L.) by High-Performance Liquid Chromatography (HPLC)

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ABSTRACT

The results of this study referred to the presence of some active compounds that were characterized the chamomile plant. The dry roots, stems and flowers showed the presence of some active compounds that were separated by colour indicator (green colour) by TLC which is apigenin compound, then it is identified by HPLC. The results showed the presence of this peak in all these specimen used.

As comparing these results with the usage of fresh explants and by using roots and stems results also showed the presence of some of peaks from these single peak separated at 3.5 minute was characterized in each of these parts used. This indicate that this peak belongs to the same compound that was separated from the dry plant. Also identification of the active compounds extracted from callus, roots regenerated in tissue culture and cell cultures referred to the presence of number of peaks from these the absorbance peak which separated in retention time 2.3 minute was characterized this result considered to be remarkable indicate to the presence of the same compound.