

ANNOTATION OF THE DIPLOMA THESIS

My diploma thesis was intended on phytochemical study of polar extract of *Helianthus annuus* L. leaves and simultaneously biological tests were done (so-called bioassay – guided separation) – acute toxicity, antioxidant activity (DPPH test, FRAP metod) and antifungal activity.

The Fraction 29 showed the highest antioxidant activity. The Fraction 22-24/3, obtained by preparative chromatography, was analyzed by gas chromatography. This analysis shows present of the oil-acid, the oily acids with a middle chain, the palmitoic acid and the myristic acid.