

**Analysis of *Andrographis* leaves extract.**

Marta Tonarová, 2010

**Abstract:** The analysis of the extract of leaves *Andrographis paniculata* (Acanthaceae) was accomplished. The commercial ethanol extract with the contents of andrographolides not higher than 10 % represented the tested material. In case of using the standard andrographolide, the thin layer chromatography has proved its very low amount in the extract only, in spite of the fact that studying literature considers its contents as majority. The identity of the standard was verified by measuring its NMR spectrums, which refers to the informations in the studying literature. Contents of andrographolides was fixed by the high performance liquid chromatography extended to the standard, with using of isocratic elution and spectrophotometric detection by the wave length 223 nm. Total contents of the andrographolides in the extract was 12,23 % and consequently it refers to the production protocol. The main component in the contents of the extract was isolated by using preparative TLC. On the basis of fixing the NMR spectrums and their confrontation with the studying literature it was determined as 14-deoxy-11,12-didehydroandrographolide.