Abstract

This studies describes the determination of artemisinin in *Artemisia annua* L. cultivated in Czech Republic in 2006. Plant was harvested in four vegetative stages (intensive vegetative growth stage, bud formation, cease bloom stage and maturity seed stage). Plant was shade dried on the air and extracted with an organic solvent hexane for 17 hours and then filtrated. Artemisinin was confirmed by thin layer chromatography with artemisinin standard use. The concentration of artemisinin was determinated by reversed phase high performance liquid chromatography with constant constitution of mobil phase and UV detection with wave length 295 nm. Maximum artemisinin concentration occured at the bud formation stage (0,030%).