

ABSTRACT

The diploma thesis deals with *Cannabis sativa*. The aim is to focus on possible utilization of *Cannabis sativa* in teaching chemistry. The theoretical part describes the botany of cannabis, overviews phytocannabinoids, substances contained in cannabis, and it also includes wide use of cannabis in agriculture and industry. The practical part deals with the selection and arrangement of a possible curriculum about chromatography as the most affordable technique for analysis of cannabis at school, including the formulation of school experiment methodology using the thin-layer chromatography of *Cannabis sativa* extract to demonstrate the presence of phytocannabinoids. The practical part also includes the scheme of an educational project on cannabis and describes the latest techniques, as well as the methodology of work with them, which are suitable for analysis of phytocannabinoids.