

Abstract

Šilhavá Tereza, Ecotoxicological screening of the select drug III, (graduation thesis)

Charles University in Prague, Pharmaceutical Faculty in Hradec Králové, Department of Pharmaceutical Botany and Ecology; total number of pages: 61

At the present time, we are increasingly discovering the residue of medical drugs in the environment where they can continue to influence organisms found in nature. In our experiment, we were assessing the ecotoxicity of diazepam found in the medical drug Diazepam 5 mg in comparison with standard diazepam. When evaluating the toxicity, we were using the following organisms: unicellular *Tetrahymena pyriformis*, nauplii of *Thamnocephalus platyurus*, and seeds of *Sinapis alba*. It was revealed that the most sensitive organism was *Sinapis alba*. At the highest concentration of diazepam tablet, root growth was inhibited by up to 96.4%.

Key words: ecotoxicology, diazepam, *Sinapis alba*, *Tetrahymena pyriformis*, *Thamnocephalus platyurus*