Abstract
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Title of thesis:
Chronic toxicity of drugs mixture

Ibuprofen, from the group of non-steroidal and anti-inflammatory drugs, and amoxicillin, from the group of broad-spectrum aminopenicillin antibiotics, belong to one of the most often used drugs. In this work was monitored chronic toxicity of these drugs and their mixtures. For the evaluation was selected multigenerational toxicity test with the protozoan Tetrahymena thermophila and algal toxicity test with the alga Desmodesmus subspicatus. It turned out that the more sensitive organism is T. thermophila for which we have determined the value 24hEC$_{50}$ in the range of 1,53 to 2,57 mg/l compared with the value 72hEC$_{50}$ for D. subspicatus in the range of 16,77 to 229,3 mg/l. Synergistic action of these two drugs in mixture has not been demonstrated.

Keywords: ecotoxicology, amoxicillin, ibuprofen, Tetrahymena thermophila, Desmodesmus subspicatus