Abstract

Biological activity of plant metabolites XXVIII. Alkaloids from selected cultivars of *Narcissus cyclamineus* REDOUTÉ and their influence on acetylcholinesterase and butyrylcholinesterase.

JANURA M.: Diploma work, Charles University in Prague, Faculty of Pharmacy in Hradec Králové, Department of Pharmaceutical Botany and Ecology, Hradec Králové 2015, Czech Republic.

Abstract:


The alkaloid extracts were analyzed by GC/MS and the probable occurrence of individual alkaloid substances was observed. These extracts were also assayed for HuAChE and HuBuChE inhibitory activity.

*N. cyclamineus* cv. Surfside with IC$_{50}$ = 61,26 ± 6,42 µg/ml and *N. cyclamineus* cv. Warbeld with IC$_{50}$ = 85,43 ± 11,13 µg/ml have the best results in inhibition of HuBuChE. The best inhibitory activity on HuAChE has *N. cyclamineus* cv. Warbeld with IC$_{50}$ (HuAChE) = 36,82 ± 4,50 µg/ml.

Key words: *Narcissus*, Acetylcholinesterase, Butyrylcholinesterase, GC/MS, Alzheimer’s disease.