

## Abstract

Charles University, Faculty of Pharmacy in Hradec Králové

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Title of Thesis **Structural analysis of natural compounds employing  
NMR spectroscopy**

This diploma thesis is solving three unknown structure of natural products employing Nuclear Magnetic Resonance.

Presented alkaloids were isolated from *Narcissus pseudonarcissus* L. (Amaryllidaceae family) and *Papaver rhoeas* L. (Papaveraceae family) at the Department of Pharmaceutical Botany, Faculty of Pharmacy in Hradec Králové. The isoquinoline alkaloids are most often obtained from plants of these families.

The isolated substances were characterized employing basic  $^1\text{H}$  and  $^{13}\text{C}$  NMR 1D experiments and advanced 2D experiments as gHMBC, gHSQC, gCOSY and NOESY, supported by MS spectra.