

# Comparison of Tropane Alkaloid Spectra Between *Datura innoxia* Grown in Egypt and Bulgaria

Strahil Berkov<sup>a,\*</sup> and Rawia Zayed<sup>b</sup>

<sup>a</sup> Department of Applied Botany, Institute of Botany, Bulgarian Academy of Sciences, 23 Acad. G. Bonchev Str., 1113 Sofia, Bulgaria. E-mail: berkov@iph.bio.bas.bg

<sup>b</sup> Department of Pharmacognosy, Faculty of Pharmacy, Zagazig University, 44519 Zagazig, Egypt

\* Author for correspondence and reprint requests

Z. Naturforsch. **59c**, 184–186 (2004); received August 1, 2003

The alkaloid spectra of *Datura innoxia* plants grown in Egypt and Bulgaria were investigated by GC-MS. Thirty-eight alkaloids were detected in the roots, leaves and fruits of the plants. Five new alkaloids for *D. innoxia* are reported. Alkaloid spectra of Egyptian and Bulgarian plants differ significantly in respect to their alkaloid composition and main alkaloids accumulated in the plant organs.

*Key words:* GC-MS, *Datura innoxia*, Tropane Alkaloids