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TOXIC PYRROLIZIDINE ALKALOIDS OF ECHIUM AMOENUM FISCH. & MEY.

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Abstract:

Toxic pyrrolizidine alkaloids are present in some species of Echium (Boraginaceae). In this study petals of Echium amoenum Fisch. & Mey. (Gol-e-Gavzaban) as a popular herbal medicine in Iran, were investigated for pyrrolizidine alkaloids (PAs). The alkaloids were separated and purified by preparative TLC and characterized by IR, one and two dimensional ¹H and ¹³C-NMR and Mass spectroscopy. Four toxic alkaloids namely: echimidine I, echimidine isomer II, 7-angeloyl retronecine III and 7-tigloyl retronecine IV were identified.

Keywords:

[Pyrrolizidine alkaloids](#) , [Echimidine](#) , [Echimidine isomer](#) , [7-angeloyl retronecine](#) , [7-tigloyl retronecine](#)

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