β-D-GALACTOPYRANOSIDE SECO-PHYTOPORPHYRIN FROM ATROPA BELLADONNA AND SOLANUM TUBEROSUM YELLOW LEAVES DETERMINED BY NUCLEAR MAGNETIC RESONANCE

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Abstract: The screening for the presence of a chlorophyll catabolite in two Solanaceae plant species yellow leaves was positive, revealing the possibility for its isolation. The purification of the methanol extract from the yellow leaves of Atropa belladonna and Solanum tuberosum using column chromatography revealed the presence of chlorophyll catabolite glycoside. The chlorophyll catabolite structure was determined through 1D and 2D NMR spectral data analysis, showing that both Solanaceae plant species yellow leaves contain the β-D-galactopyranoside seco-phytoporphyrin.

Keywords: chlorophyll catabolite, structure, nuclear magnetic resonance, Atropa belladonna, Solanum tuberosum.

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