



Determination of Antioxidant activity by High Performance Liquid Chromatography, Phenolic and Flavonoid contents of *Vincetoxicum nigrum*

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Abstract: The main purpose of this study is to evaluate the antioxidant properties, total phenolic content and total flavonoid content of *Vincetoxicum nigrum*. The determination has been done on three different extracts methanolic, dichloromethane and ethyl acetate. The methanolic fraction showed the highest antioxidant activity by DPPH-HPLC method, compared to dichloromethane and ethyl acetate. The total phenolic content was determined by Folin-Ciocalteu method and total flavonoid content was evaluated by equivalents of Quercetine. The methanolic extract has been found to be rich in flavonoids and phenolic compounds. To sum up, *Vincetoxicum nigrum* did not have a high antioxidant activity.

Keywords: *vincetoxicum nigrum*, antioxidant activity, High Performance Liquid Chromatography, total phenolic content, total flavonoid content.

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