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Comparative analysis of bilberries alcoholic extracts regarding to anthocyanins content, total phenolics and antioxidant activity

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Abstract The aim of this study was to investigate and compare *Vaccinium myrtillus* L. extracts obtained in ultrasonic condition with different water/methanol and water/ethanol extraction mixture acidified with 0.1% HCl. The extracts were analyzed for monomeric anthocyanins contents, total phenolics content and antioxidant activities. The highest anthocyanins content (3888 mg/L), total phenolics content (6325 mg GAE/L) and the best antioxidant activity were obtained for the bilberries extract with 100% methanol. Also, there is a good correlations between antioxidant activitiy and total phenolics content (R^2 = 0.9763) for water/methanol series extracts.

Keywords: bilberries, anthocyanins, total phenolics, antioxidant activity.

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