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Subcritical Water Extraction (SWE) of Anthocyanin from Arabica Coffee Pulp

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Coffee pulp which is 45-55% of coffee cherry is the main by-product from coffee processing industry. Analysis of cyanidin-3-rutinoside (C-3-R), the major anthocyanin in coffee pulp is important for the development of value-added products. The SWE parameters including extraction temperature, extraction time and cycle were studied for selective and efficient extraction of C-3-R from Arabica coffee pulp. Quantitative analysis was obtained using high performance liquid chromatography (HPLC). SWE is a promising green approach in the extraction of bioactive compounds from plants materials.

Keywords: Anthocyanin, Arabica coffee, coffee pulp, subcritical water extraction.
