

Title Antioxidant properties and total phenolic content of dietary fibre powder (DFP) from pink guava by-products

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Abstract

Pink guava is considered as a Superfruit because it is rich in dietary fiber, vitamin A and C, folic acid and dietary minerals. It is believed that a pink guava contains high concentrations of antioxidants. The fruit can be regarded as a natural product with the properties of dietary fiber and antioxidant compounds. The objectives of this study are to determine antioxidant activity, and total phenolic content of the dietary fibre powder prepared from pink guava byproducts. In this study, the antioxidant properties of DFP from pink guava by-products were evaluated through inhibition α -carotene bleaching, DPPH radical-scavenging activity and total phenolic content analysis. The study demonstrates that the dietary fibre powder from pink guava by-products is high in antioxidant activities (52 - 80.3 % AOA), radical scavenging effects (85.4 - 91.7 %) and total phenolic content (156 - 227.6 FAE mg/g). The high content of antioxidant activity of pink guava by-products can be particular interest for further exploitation and utilization as food ingredient.