

Comparison of the Isoflavone Contents from Various Soybeans

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Isoflavones have been credited with performing several health-promoting functions, such as, prevention of cardiovascular diseases, cancers, and menopausal symptoms. The objective was to analyze the isoflavone contents of several soybeans grown in Korea, and compare the contents. The soybeans tested are Cheongja, Blue bean, Daihwang, Daeweon, and Soweon. Among the twelve kinds of isoflavones, the eight kinds of isoflavone considered were daidzin, glycitin, genistin, acetyl daidzin, malonyl genistin, daidzein, glycitein, and genistein. In this study, the samples were extracted in aqueous solution of 60% EtOH using stirrer for 2hr, and were analyzed using reversed-phase high performance liquid chromatography (RP-HPLC). The mobile phases were the binary system of water and acetonitrile with 0.1% acetic acid for 50min in linear gradient condition.