The Study of Interaction of Daidzein and Genistein in Soybean Foods with Ascorbic Acid by Spectrophotometric and Chromatographic Methods

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The aim of this work is to investigate the interaction of Daidzein (DZ) and Genistein (GE) which are the active substances of soybean with ascorbic acid in in-vitro conditions. The phytoestrogens, daidzein and genistein have antioxidant properties, also have been considered for estrogen replacement therapy. Ascorbic acid, an important antioxidant which have many biochemical reactions’ cofactor in the body can be used with soybean products. We obtained some preliminary results of the interaction of these substances by PR-HPLC method with DAD. The reactions was performed in different pH’s (3, 75- 7, 40) at ambient temperature. The retention times and the peak areas was changed in comparison to DZ, GE and ascorbic acid.