

ABSTRACT

Charles University in Prague, Faculty of Pharmacy in Hradec Králové

Department of: Pharmacognosy

Candidate: Mgr. Šárka Křížová

Consultant: PharmDr. Jan Martin, Ph.D.

Title of Thesis: The determination of catechins and phenylpropanoid acids in selected dietary supplements

Key words: dietary supplements, green coffee, green tea, guarana, catechins, phenylpropanoid acids.

This work was focused on the determination of catechins and phenylpropanoid acids in selected dietary supplements. We selected 8 dietary supplements containing of green coffee, green tea and guarana, which are used for the body weight loss, boost metabolism and detoxification. We prepared 2 extracts from these examined products, one for the determination of gallic acid and catechins, the second one for the determination of phenylpropanoid acids and flavonoids. We used HPLC analysis for the detection of mentioned substances. The results of this work show that these products occurring in the territory of the Czech Republic have lower quality in most cases. Legislative requirements of these products have been met, but the measured content of active substances was lower than the producer declare.