

Phytochemical Profile of Ripe *Juniperus excelsa* M. Bieb. Galbuli from Bulgaria

Authors : S. Stankov, H. Fidan, N. Petkova, M. Stoyanova, Tz. Radoukova, A. Stoyanova

Abstract : The aim of this study was to evaluate the chemical composition of ripe *Juniperus excelsa* M. Bieb. galbuli (female cones) collected from "Izgoraloto Gyune" Reserve in Krichim, Bulgaria. The moisture (36.88%), abs. weight 693.96 g/1000 pcs., and the ash content (10.57%) of ripe galbuli were determined. Lipid fraction (9.12%), cellulose (13.54%), protein (13.64%), and total carbohydrates (31.20%) were evaluated in the ripe galbuli. It was found that the ripe galbuli contained glucose (4.00%) and fructose (4.25%), but disaccharide sucrose was not identified. The main macro elements presented in the sample were K (8390.00 mg/kg), Ca (4596.00 g/kg), Mg (837.72 mg/kg), followed by Na (7.69 mg/kg); while the detected microelements consisted of Zn (8.51 mg/kg), Cu (4.66 mg/kg), Mn (3.65 mg/kg), Fe (3.26 mg/kg), Cr (3.00 mg/kg), Cd (< 0.1 mg/kg), and Pb (0.01 mg/kg).

Keywords : chemical composition, *Juniperus excelsa* M. Bieb, minerals, ripe galbuli

Conference Title : ICSNF 2020 : International Conference on Science of Nutrition and Food

Conference Location : Dublin, Ireland

Conference Dates : September 24-25, 2020