

Nutrient and Trace Element Content in Some Wild Boletus Taxa from Marmara Region (Turkey)

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Abstract : Element contents were analysed in some wild Boletus taxa [Boletus fechtnerii, Boletus edulis, Boletus dupainii, Boletus calopus, Boletus pulverulentus, Boletus rhodoxanthus] from Marmara region of Turkey by ICP-AES equipment. The element uptake levels were observed at different amounts in each Boletus species. The highest Fe, Ca, Ni, Cd, and Cr concentrations were determined as 4927, 1927, 3.56, 2.69 and 2.63 mg.kg-1 in B. fechtnerii respectively. B. dupainii has highest K, Mg, Mn, and Zn concentrations as 41910, 2757, 476, and 125 mg.kg-1 respectively, whereas B. calopus has highest P, Cu, and B concentrations as 4982, 48.6, and 28.3 mg.kg-1 respectively. B. edulis has highest Na and S contents as 1666 and 5544 mg.kg-1 respectively. Although B. pulverulentus has only the highest Al content as 871 mg.kg-1, on the other hand B. rhodoxanthus has highest Mo concentrations as 0.86 mg.kg-1.

Keywords : Boletus, element, macrofungi, Turkey

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