

Determination of antioxidant and antimicrobial properties of *Agaricus bisporus* from Romanian markets

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Abstract The antioxidant action of ethanolic extract from *Agaricus bisporus* which is available in the supermarkets of Bucharest, Romania, was assessed by determining its reducing power and its radical scavenging activity. The determinations were made by analyzing the freeze-dried ethanolic extract. The radical scavenging activity was determined using 2, 2-diphenyl-1-picrylhydrazyl (DPPH), superoxide radical, nitric oxide radical and hydrogen peroxide scavenging assays. Total phenols, flavonoids, ascorbic acid, β -carotene and lycopene were also determined. The ethanolic extract from *A. bisporus* could be a natural antioxidant and antimicrobial source against the tested organisms, as demonstrated by the minimum inhibitory concentration values.

Keywords: mushroom, freeze dried, scavenging activity, MIC.
