DE GRUYTER OPEN
doi: 10.2478/auoc-2014-0012
Ovidius University Annals of Chemistry Volume 25, Number 2, pp.65-70, 2014

Evaluation of the antioxidant activity of some types of red and white wines

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Abstract Samples of commercially available Romanian wines were analyzed in order to determine total phenols content and the antioxidant activity. The content of total phenolics in the extracts was determined according to the Folin-Ciocalteu method and calculated as gallic acid equivalents (mg GAE/100g). Antiradical activities of the extracts were evaluated by a micro assay using 1, 1¢-diphenyl-2-picrylhydrazyl spectrophotometric method. Wine characteristics measurements were examined by multivariate data analysis, using principal component analysis (PCA). Total polyphenol content was correlated to the antioxidant activity of the studied wine samples. The values of the inhibition power of free radical, PI%, are ranging between 1.68 for white wine and 0.95 for red wine ("Bull blood" bottled by Tohani winery, Prahova, Romania).

Keywords: wines, free radical scavenging activities, antioxidant activity; health promotion; phenolic.

ISSN-1223-7221