

FETEASCĂ NEAGRĂ WINE QUALITY INFLUENCED BY TERROIR IN DIFFERENT ECOSYSTEMS FROM REPUBLIC OF MOLDOVA

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Wines' authenticity and typology is a difficult but important problem that can be solved by a correct quantification of a large segment of aspects, starting with vine cultivation conditions and ending with ways of selling the wine. The local Moldavian grape varieties *Feteasca Neagra* is an attractive prospect to winegrowers, as it is resistant to both cold temperatures and drought conditions. It ripens late and has thick skins, leading to wines with an excellent concentration of anthocyanins, giving good pigment to the wines.

The aim of the study is to quantitatively evaluate the summary content of phenolic substances in *Feteasca Neagra* wine samples obtained by classical technological variant of maceration-fermentation of grapes from different national wine-growing regions. The harvest time was at the same date and grapes presented similar uvological and physico-chemical parameters.

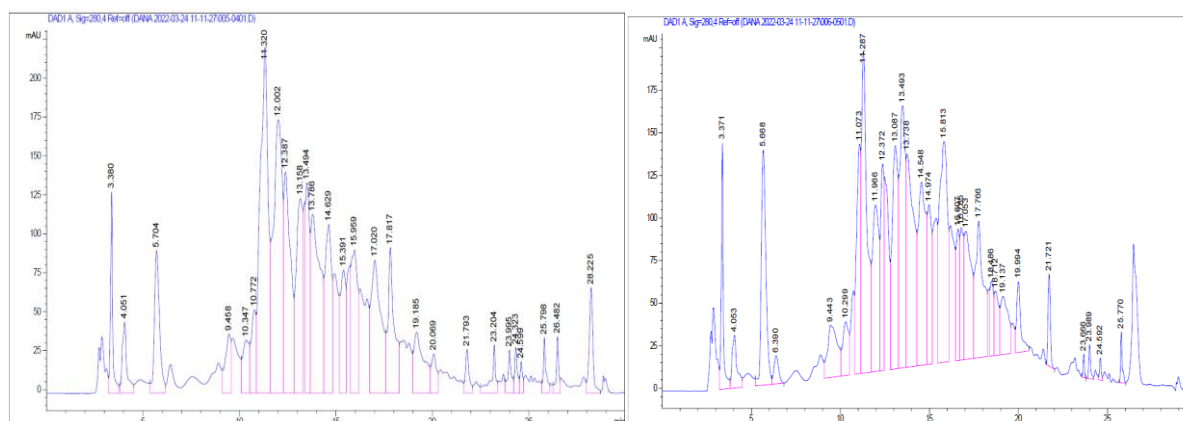


Figure 1. HPLC chromatogram of *Feteasca Neagra* wine sample (left image cultivated in the Mileștii Mici vineyard/Ialoveni district and right – Stefan Vodă, vintage of year 2021).

The results show a high variability, induced both by the cultivation conditions and the selected type of *Feteasca Neagra*. The different climatic conditions during the years, different soil types from one area to another, the crop load and vine age, were factors that influenced the quality of grapes and wine, highlighted the particular adaptability of this variety. Variety gives good results on deep and fertile soils which ensure acceptable production and both on thin and rocky soil type, on which are highlighted the variety quality potential. Under these conditions of growing technology with the soil type and environmental resources of the area, make it possible to achieve special wine that ensures customer demands through the special sensory qualities, typicity and authenticity in promoting Moldavian wine.

Keywords: authenticity, cultivation conditions, phenolic substances and vinification conditions

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