

## STUDY OF RED WINE PRODUCED IN THE TUTOVA AREA, ROMANIA

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**Abstract.** Dark red and very sweet common grape grows in most rural areas in the Tutova Area. From these grapes a dark red wine is made. It is a semi-dry to dry wine with a high content of energizing substances. As this kind of wine is drunk by some 300,000 locals, we undertook to conduct research on this wine. The research contained phytochemical studies to determine the active principles groups constituent of the wine; determination of microelements constituents via atomic absorption spectrophotometry, performed with Wizard application, AA-6200 Shimadzu equipment; determination of resveratrol content, via HPTLC thin-layer chromatography, by means of Wincats application, CAMAG equipment. The findings of the research revealed the presence of flavonoids, vitamins and anti-oxidant products is by far superior to many other kinds of domestic as well as European wines.

**Key words:** Tutova, common grape, wine, spectrophotometry, chromatography.

### 1. Introduction

Plantavorel Piatra-Neamt launched a programme aiming at researching red and purple wines produced in various area of Romania with a view to using such wines in preparing tonic beverages with enhanced phytotherapeutic properties. The quality of the wine used in tonic beverages is the only selecting criterion.

Wine is a hydro alcoholic solution, which contains very many substances that differ from the point of view of their chemical structure but having a well-defined role with a well-known qualitative and nutritive value. The phytotherapeutic properties of wine are given by the group of active principles and microelements contained by ripe grapes.

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