CHARACTERIZATION OF BRAZILIAN TABLE WINES FROM AMERICAN VARIETIES.

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KEYWORDS
Chemical analysis, aroma analysis, sensory analysis.

INTRODUCTION
The Brazilian wine industry has a remarkable characteristic that distinguishes from other markets. While the foreign market only accepts products originating from European varieties (V. vinifera), in Brazil, products originating from American varieties (V. labrusca and V. Bourquin) and hybrids are also accepted.

According to Brasil (2004), table wine is "the wine with an alcohol content of 8.6% to 14% by volume, and may contain CO₂ up to 1 atm (20° C)", and table wine of Americans is "the wine made with grapes from the group of American grapes and/or hybrid, and may contain Vitis vinifera varieties."

Currently in Brazil, about 75% of vineyards area for wine processing consists in American varieties and hybrids. European cultivars represent about 25% of area for wine processing (Guerra and Barnabé 2005).

OBJECTIVE
The objectives of this study are to characterize wines from American grape varieties produced in Brazilian wineries by chemical classical analysis and volatile composition; additionally, sensory analysis by the acceptance test and descriptive test will be carried out.

MATERIAL E METHODS
Dry and sweet varietal wines from red grapes varieties "Bordô", "Isabel" and "Máximo" and white grapes varieties "Niágara" and "Lorena" will be used.

The varietal wines “Bordô”, “Isabel” and “Niágara” were provided by wineries located in Brazilian Southern Mountains (Serra Gaúcha), city of Flores da Cunha, Rio Grande do Sul, Brazil. The varietal wines “Lorena” were also from Brazilian Southern Mountains (Serra Gaúcha), but the city is Caxias do Sul, Rio Grande do Sul, Brazil. The “Máximo” varietal wines were from the west-center of São Paulo State, city of Lençóis Paulista, São Paulo, Brazil.

The chemical analysis to be performed are: total, volatile and fixed acidity, alcohol (by distillation), density, pH, dry extract (indirect method), reduced dry extract, ratio alcohol/reduced dry extract, total and reducing sugars, free and total sulfur dioxide, polyphenols, color intensity, tonality and turbidity to be held in Food Science and Technology Laboratory, Centre of Biological Engineering, University of Minho, Braga, Portugal.

Volatile compounds will be analyzed by gas chromatography coupled with flame ionization and mass spectrometry detectors, in the Chromatography Laboratory, Centre of Biological Engineering, Minho University, Braga, Portugal.

Sensory analysis will be made firstly by the acceptance test by Hedonic Scale Test and then, will be held the description test by Quantitative Descriptive Analysis (QDA). The sensory analysis will be performed at the Laboratory of Beverages, Agro-industrial Management and Technology Department, Agronomic Sciences Faculty, Universidade Estadual Paulista, Botucatu, Brazil, as mentioned earlier, the Brazilian public has a different characteristic of the world majority.

REFERENCES

AUTHORS BIOGRAPHIES

MAÍRA RODRIGUES ULIANA was born in Tietê, Brazil and studied Agronomic Engineering (2001 - 2005) in Agronomic Sciences Faculty, Universidade Estadual Paulista, Botucatu campus. She began his master's degree in 2007 at that same university, by Agronomy course, concentration area Agriculture Energy, getting her title in 2009. This same year she entered to the PhD program at the same institution and now is currently Erasmus Mundus student (sandwich doctoral) at the Minho University in order to perform part of their research with wines.

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