

# II INTERNATIONAL SYMPOSIUM ON SCIENCE AND BIOTECHNOLOGY ENTREPRENEURSHIP AND INNOVATION

## CHARACTERIZATION AND USE OF ISABEL'S GRAPE SEED OIL AFTER THE VINIFICATION PROCESS

1 CONSTANTINI, M., 2 NOGUEIRA, C.R.M., 3 MAFI, S., 2 SOARES, F., 3 MEGIOLARO, F., 4 CALIARI, V.

1 Mestranda do Programa de Pós-graduação em Ciência e Biotecnologia da Universidade do Oeste de Santa Catarina (UNOESC).

2 Docente do Programa de Pós-graduação em Ciência e Biotecnologia da Universidade do Oeste de Santa Catarina (UNOESC), Videira, SC

3 Laboratoristas da Universidade do Oeste de Santa Catarina (UNOESC), Videira, SC

4 Pesquisador EPAGRI e Docente do Programa de Pós-graduação em Ciência e Biotecnologia da Universidade do Oeste de Santa Catarina (UNOESC), Videira, SC

### Abstract

Vitiviniculture has become an important activity for the growth of small farms. In the region of Santa Catarina there are many wineries, which in turn, generate waste after the vinification process (bagasse). With this objective, we evaluated the oil of the grape seed (*Vitis labrusca*, variety "Isabel") after the vinification, for possible use in cosmetic. The physical-chemical characterization of the oil of the grape seed was obtained through the analyzes of yield 7.29%; acidity 0.045mg KOH / g; volatile matter 0.64%; peroxide index 6.63 meq O<sub>2</sub>; density 0.91 g.cm<sup>3</sup>; pH 5, retraction index 1.47n and saponification 194%. It was verified that the grape seed oil analyzed, obtained values accepted by the current legislation and, therefore, can be used as raw material for new products. Contributing in the reduction of the environmental impact generated by the wineries and with their possible reutilization, generating increase of income to the producer. With the results achieved, we developed a hand cream with different concentrations (1% and 3% oil) and evaluated its organoleptic characteristics (appearance, color, smell and touch), physical-chemical (pH, centrifuge and spreadability),

**Programa de Mestrado Acadêmico  
em Ciência e Biotecnologia**

**6 a 10 de novembro de 2017**  
**Unoesc Videira**

# **II INTERNATIONAL SYMPOSIUM ON SCIENCE AND BIOTECHNOLOGY ENTREPRENEURSHIP AND INNOVATION**

and sensory (absorption, drying, stickiness, spreadability, consistency, sensation: oily, hydration and softness of the skin).

Keywords: vinification. Reuse of residues. Grape seed oil. Cosmetic.

Financial support: UNOESC.

E-mails - [may89\\_05@hotmail.com](mailto:may89_05@hotmail.com); [vinicius.caliari@unoesc.edu.br](mailto:vinicius.caliari@unoesc.edu.br)

**6 a 10 de novembro de 2017**  
**Unoesc Videira**

**Programa de Mestrado Acadêmico  
em Ciência e Biotecnologia**