

II INTERNATIONAL SYMPOSIUM ON SCIENCE AND BIOTECHNOLOGY ENTREPRENEURSHIP AND INNOVATION

PHYTOCHEMICAL PROFILE AND BIOLOGICAL ACTIVITY USING ISABEL GRAPE (VITIS LABRUSCA L.) RESIDUE EXTRACT

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Abstract

The grape residual presents high level of active substances composition, characterizing it as a product that the industry could use more efficiently in a better profitable way, in the formulation of beauty goods and food. The goal of this research was to evaluate the phytochemical profile and biological activity of the Isabel Grape residue. In order to obtain the extracts, it was used the method of trituration in different solvents (water, ethanol, methanol, and a hydroalcoholic mixture). Colorimetric tests used showed the phytochemical profile. The technique of Folin-Ciocalteu evaluated the content of total phenol and the method of $AlCl_3$ evaluated the total flavonoids. As for the biological activity, the antioxidant activity was evaluated by the method of DPPH, the inhibition of auto-oxidation of β -carotene/linoleic acid and the ability of metallic ions sequestration. The spectrophotometric reading obtained the photoprotection factor (SPF). The results showed that the hydroalcoholic extract presents a great phenols and flavonoids quantity that could relate with the extract antioxidant and photo protective activity. This

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extract presented a SPF as 1.87 and a good antioxidant by the used methods. The results showed that the Isabel Grape residue hydroalcoholic extract presents a great biotechnological potential.

Keywords: Grape residue. Antioxidant potential. Photo protection.

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