

## Lavandulol as a precious cosmetic ingredient

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#### Introduction:

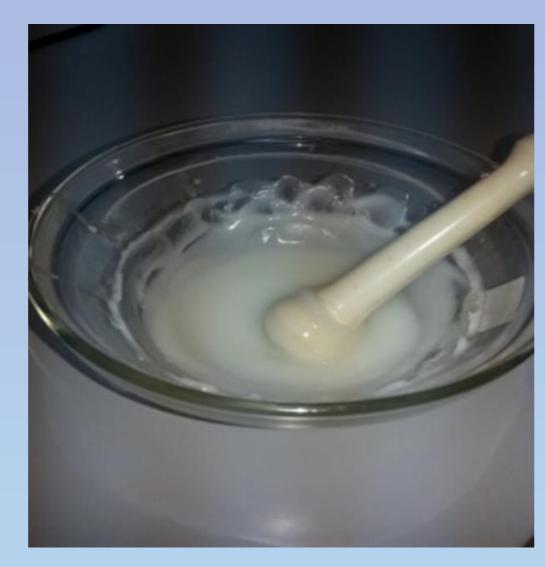
Lavender oil is extracted mostly from the flowers of the lavender plant, a fragrant in nature, and have been used for making parfumes for centuries. The oil is very useful in aromatherapy and many aromatic preparations and combinations are made using lavender oil. Traditionally, lavender essential oil has also been used in dermocosmetics. The aim of this study is to show on human subjects the potential for diminishing the melanin of the skin, at the level of unreliable melanic spots (macules of divese causes) by the mexametry method.

## Materials & Methods:

- •Chemical determinations were made on lavender volatile oil, in collaboration with the Banat University of Agricultural Sciences using gas chromatograph (GC/MS) coupled with MSD 5975 mass spectrometer and equipped with a capillary column.
- •The extracted oil was incorporated into a pharmaceutical form prepared in the Dermatofarmacy and Cosmetology Laboratory of the Faculty of Pharmacy in Timisoara.





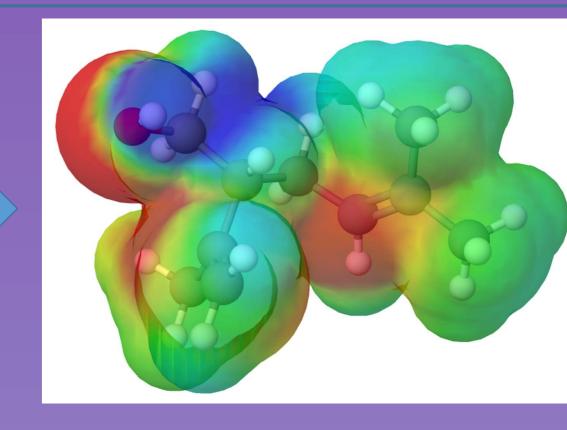


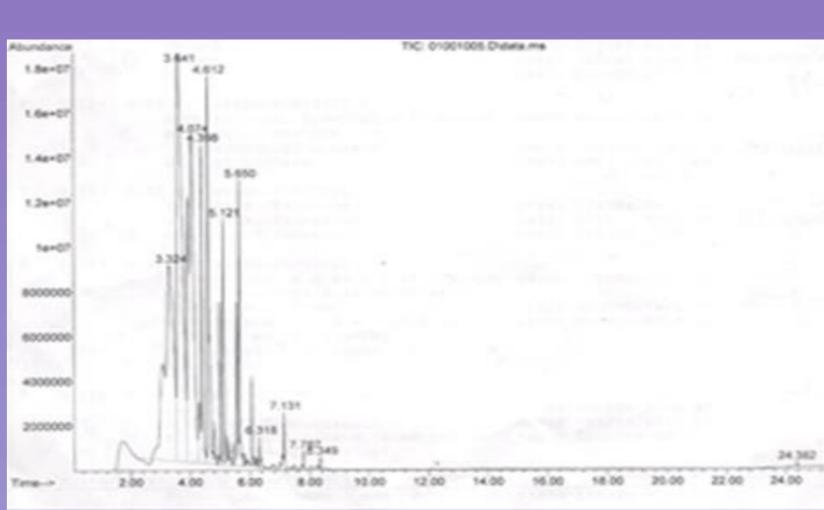
•After a preliminary cream test, to eliminate any risk of intolerance, a mexametric assay was performed on 15 volunteers, all women, aged between 22 and 64 years, which accepted to apply 2 times a day the product, for 2-month.

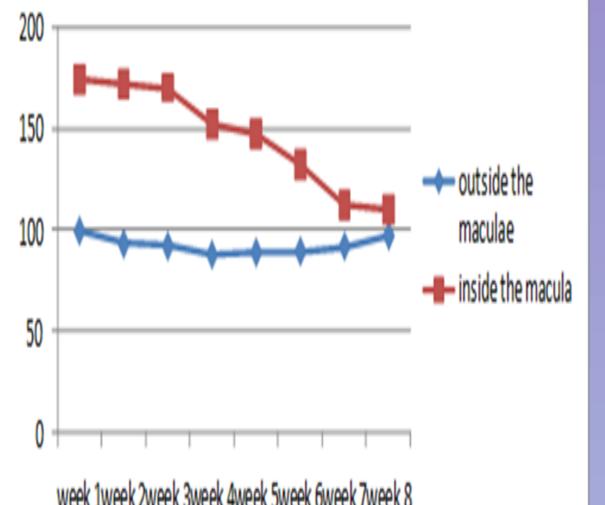
## Results & Discussion:

The chemical composition research concluded that the (R)-Lavandulol is the more active chiral component, in the visual and analytical model.

The comparative chromatographic analysis shows that the main components of Lavandulol, irrespective of the source analyzed, are linalool and linalyl acetate.







- Results concerning the dermocosmetic assay:
- -The melanine values for the 15 volunteers were calculated as arithmetic average, for 2 cutaneous areas: near (outside) the melanine macula and respectively inside the melanine macula.

  -We appreciate that the lavender oil can be not only a flavouring but an active cosmetic ingredient

# Conclusions:

This study adds an important role to Lavandulol, besides the aromatherapic or cosmetologic properties, which elevates Lavand on another level, more attractive to the cosmetic industry and prescripting dermatologists, as a powerfull depigmentant.

## Aknowledgments:

The University of Agricultural Sciences of Banat, Timisoara, Romania



#### References:

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