European Chemistry Congress

June 16-18, 2016 Rome, Italy

Determination of skin softeners, skin shiners and phytoconstituents from eugenol oil extracted from clove buds of clove trees found in zanzibar

Ochieng Anthony¹, Abdalla A. Abdalla¹, Mbarouk A. Mohammed¹, Abubakhar Khamis¹ and Ochieng J. Odalo² ¹Sumait University, Tanzania ²Technical University of Mombasa, Kenya

Cloves buds (from *Eugenia caryophyllata plant*), apart from its traditional use as a spice for different culinary, nutrition as well as medicinal purposes, the local inhabitants in Zanzibar uses its dried mulled buds as skin softener and shiner applying it crudely on their bodies particularly their faces to give a sweet, smooth, soft, healthy, natural clear shinning outlook. This prompts us to determine the existence of skin softeners, skin shiners, surfactants and the relevant phytochemical constituents from the eugenol oil extracted via hydrodistillation. Standard stipulated methods for phytochemical qualitative analysis shows presence of glycosides, alkaloids, saponins, steroids and flavonoids, thus confirms the presence of surfactants, anti-inflammatory activity, skin conditioning and softening constituents as well as the claimed anti-skin cancer activity. The presence of skin softeners and skin shiners were determined qualitatively using ferric chloride and leiberman's test. Analysis by colorimetry, HPLC and GC-MS on the extract revealed the presence of panthenol, tocopherol, ascorbyl palmitate and niacinamide which are among the major ingredients for healthy skin, thus confirms the use of dried mulled clove buds as ethno-herbal cosmetics.

Biography

Ochieng Anthony is a member in department of science at Sumait University, Tanzania.

d_norbatus@yahoo.com

Notes: