



“Gheorghe Asachi” Technical University of Iasi, Romania



IN VIVO TESTING OF *P. cerasus* GUM WITHIN A COSMETIC FORMULATION

Gina Amarioarei-Iftimie^{1*}, Maria Lungu², Sorin Ciovică¹

¹ „Gheorghe Asachi” Technical University Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Natural and Synthetic Polymers, 73A Prof.dr.docent Dimitrie Mangeron Street, 700050 Iasi, Romania

² Apollonia University of Iasi, 11 Pacurari Str., 700511 Iasi, Romania

Abstract

P. cerasus exudate gum consists of branched polysaccharide chains which contain different monosaccharides like galactose and arabinose as well as glucuronic acid which derives from glucose. The objective of this paper is the investigation of the effects of *P. cerasus* gum as an ingredient in cosmetic formulations on transepidermal water loss (TEWL) and dermal hydration of the skin using in vivo tests. The volunteers were treated with 1% *P. cerasus* exudate gum lotion and with a placebo formula as vehicle control. All subjects were asked to apply 1g of lotion to their forearm twice daily for a one week period. TEWL and skin hydration were measured at baseline and after one week with Tewameter TM 210 Corneometer CM 825 respectively. The results of these tests show that the *P. cerasus* gum decreases TEWL value and increases hydration capacity but there was not a statistically significant improvement in skin barrier or hydration capacity.

Key words: hydration capacity, *P. cerasus* gum, skin barrier integrity, TEWL

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* Author to whom all correspondence should be addressed: email: trinity_gina@yahoo.com