Abstrak :

The study on the effect of glycolic acid to the sunscreen effectiveness of oxybenzone has been conducted. The sunscreen formula containing oxybenzone 4% w/w (as the active ingredient) and glycolic acid 9%; 10%; 11% w/w (as the lightening agent) in vanishing cream base. Determination of the sunscreen effectiveness was performed in vitro by measuring the absorbance of their 10-ppm solutions in isopropanol from 290–370nm. The values of SPF (sun protecting factor) were calculated from absorbance obtained. It was concluded that glycolic acid 9%, 10% and 11% w/w improve the effectiveness of oxybenzone in that formulas.

Keyword :

Glycolic acid, Oxybenzone, Sunscreen, Vanishing cream