# سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com



#### عنوان مقاله:

Effects of Skin Penetration Enhancers in Topical Antiaging Products Containing α-Hydroxyacids and Hyaluronic Acid

### محل انتشار:

مجله بیوشیمی پزشکی, دوره 2, شماره 2 (سال: 1393)

تعداد صفحات اصل مقاله: 7

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#### خلاصه مقاله:

Background: Transdermal drug delivery has several advantages and has been vastly investigated over the last decades. Chemical enhancers improve the quantity of drug penetration through the skin. Objectives: In this study, some conventional solvents and surfactants were used as enhancers to promote dermal penetration of α-hydroxyacids (AHA) and hyaluronic acid (HA). Materials and Methods: A total of FY different formulations containing AHA or HA as the active ingredient and a solvent or surfactant as the enhancer were prepared. The experiments for determination of transdermal absorption of AHA or HA for each formulation were performed using a diffusion cell and a slice of chicken skin as model at ٣٢. After 1.2 or 17 hours, samples from the medium were collected and analyzed for AHA or HA concentration. Results: After 1.a and 17 hours, the maximum permeated amount of AHA were A9.A and 37.6 mg, respectively, which related to the formulations with liquid paraffin. After 1.0 and 1Y hours, the maximum permeated amount of HA were ۵۷.۳ and Yo.5 mg, respectively, which related to the formulations with glycerol. Conclusions: The most effective enhancer for AHA and HA were liquid paraffin and glycerol, respectively. The most effective surfactant .for both AHA and HA was Tween Ao. The effects of the enhancers were increased by prolonging the exposure time

کلمات کلیدی:

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