

Formulation and evaluation of whitening cream containing orange peel extract.

Mrs. Sandhya L. Borse, Dr. Laxmikant B. Borse & Dr. Anil G. Jadhav

1. Mrs. Sandhya L. Borse, Sandip Institute of Pharmaceutical Sciences, Nashik, Maharashtra.
2. Dr. Laxmikant B. Borse, Sandip Institute of Pharmaceutical Sciences, Nashik, Maharashtra.
3. Dr. Anil G. Jadhav, Sandip Institute of Pharmaceutical Sciences, Nashik, Maharashtra.


E Mail- sandhya.borse@sandippharmacy.org

ABSTRACT

The aims of this study are to develop the whitening cream from ethanolic extract of orange peel and finally evaluate the satisfaction by users. Whitening cream containing orange peel extract 2% w/w was then formulated and tested for the satisfaction among 20 volunteers for 1 month compared with cream base. The results revealed that volunteers satisfy the properties of orange peel cream, i.e., texture, spread ability, absorption, and moisturization at high level, while odor properties was moderate satisfaction level. The average point of overall preference was high. After using orange peel cream for 1 month, the whitening improvement of volunteer's skin color had been observed by skin color bar. Skin melanin content was measured before application of creams and then 1 month after using by Mexameter®. It was found that orange peel cream could reduce melanin pigment 17.33%. In addition, none of the volunteers developed irritation during the test period. It can be concluded that orange peel extract can be applied in cosmetic industry to increase the value of orange peel waste.

Keywords:

Orange peel extract, Skin whitening, Whitening cream

Access this Article Online	Quick Response Code: 
Website: http://www.journalofhospitalpharmacy.in	
Received on 12/04/2018	
Accepted on 17/04/2018 © PEN All rights reserved	