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POTENSI TABIR SURYA SEDIAAN LOTION EKSTRAK DAUN DAN BUAH TANAMAN BERDASARKAN NILAI SPF SECARA *IN VITRO*
(xvi + 51 halaman + 2 gambar + 8 tabel + 5 lampiran)

INTISARI

Latar belakang : Sinar UV dapat memberikan dampak negatif terhadap kulit manusia, diperlukan perlindungan kulit tambahan dengan dibuat sediaan kosmetika pelindung kulit, yaitu lotion tabir surya. Daun teh hitam, daun stevia, daun kersen, buah pepaya dan buah tomat diketahui memiliki kandungan senyawa flavonoid dan fenolik yang berperan sebagai tabir surya. Penelitian ini bertujuan untuk mengkaji perbedaan nilai SPF sediaan lotion tabir surya ekstrak daun dan buah tanaman serta nilai SPF dan kategori sediaan lotion tabir surya ekstrak daun dan buah tanaman yang diukur dengan menggunakan metode Spektrofotometri UV-Vis.

Metode : Metode yang digunakan adalah kajian artikel menggunakan artikel hasil penelitian nasional maupun internasional terindeks yang berkaitan dengan judul dan permasalahan yang diteliti.

Hasil : Potensi tabir surya dari sediaan lotion ekstrak daun dan buah tanaman memiliki nilai SPF yang berbeda karena banyak faktor dengan nilai SPF sediaan lotion tabir surya ekstrak daun teh hitam (24,71), daun stevia (11,052), daun kersen (20,8), buah pepaya (28,517), buah tomat (22,24) dan kategori tabir surya sediaan lotion ekstrak daun teh hitam, daun kersen, buah pepaya, buah tomat termasuk dalam kategori proteksi ultra (>15), sedangkan pada daun stevia nilai SPF nya termasuk dalam kategori proteksi maksimal (8-15).

Simpulan : Terdapat perbedaan nilai SPF sediaan lotion tabir surya ekstrak daun dan buah tanaman dengan nilai SPF daun teh hitam 24,71 (proteksi ultra), daun stevia 11,052 (proteksi maksimal), daun kersen 20,8 (proteksi ultra), buah pepaya 28,517 (proteksi ultra) dan buah tomat 22,24 (proteksi ultra).

Kata Kunci : Tabir Surya, Lotion, SPF, Ekstrak Daun dan Buah Tanaman

Kepustakaan : 56 (1979-2019)

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POTENTIAL SUNSCREEN LOTION OF PLANT LEAF AND FRUIT EXTRACTS BASED ON THE SPF VALUE IN VITRO

(xvi + 51 pages + 2 pictures + 8 tables + 5 attachments)

ABSTRACT

Background : UV rays can have a negative impact on human skin. additional skin protection by making protective skin cosmetics preparations, namely sunscreen lotions. Black tea leaves, stevia leaves, cherry leaves, papaya and tomatoes are known to contain flavonoids and phenolic compounds that act as sunscreens. This study aims to examine the differences in the SPF value of plant leaf and fruit sunscreen lotion preparations as well as the SPF value and categories of plant leaf and fruit sunscreen lotion preparations measured using the UV-Vis spectrophotometric method.

Methods : The method used is an article review using indexed national and international research articles related to the title and the problem under study.

Results : The potential of sunscreen from plant leaf and fruit extract lotion preparations has different SPF values due to many factors with the SPF value of sunscreen lotion preparations for black tea leaf extract (24,71), stevia leaves (11,052), cherry leaves (20,8), papaya fruit (28,517), tomato fruit (22,24) and sunscreen category of black tea leaf extract lotion, cherry leaves, papaya fruit, tomato fruit are included in the ultra protection category (> 15), while the SPF value for stevia leaves includes in the maximum protection category (8-15).

Conclusion : There is a difference in the SPF value of sunscreen lotion preparations for leaf and plant fruit extracts with the SPF value of black tea leaves 24,71 (ultra protection), stevia leaves 11,052 (maximum protection), 20,8 cherry leaves (ultra protection), papaya fruit 28,517 (ultra protection) and tomatoes 22,24 (ultra protection).

Keywords : Sunscreen, Lotion, SPF, Plant Leaf and Fruit Extracts

Literature : 56 (1979-2019)