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***ANALYSIS OF OCTYL METHOXYCINNAMATE (OMC) LEVELS
IN SUNSCREEN POWDERS CIRCULATING IN DEPOK CITY
USING UV-VIS SPECTROPHOTOMETER***

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Universitas Gunadarma, 2023.*

ABSTRACT

Indonesia is a country travelled by the equator and has a tropical climate, so it has high intensity sun exposure (Ultraviolet) and can cause damage to the skin. To protect the skin from these UV rays, it is recommended to use cosmetics that have special compounds that function as sunscreens such as octyl methoxycinnamate or OMC. This compound can protect the skin from UVB radiation. However, negative effects can result if the concentration of OMC used is too high so the Badan Pengawas Obat dan Makanan (BPOM) recommends that the maximum concentration for octyl methoxycinnamate in sunscreen cosmetics is 10%. This study aims to determine the levels of octyl methoxycinnamate using spectrophotometer UV-Vis in samples of sunscreen powder preparations circulating in Depok City. This research is a laboratory experimental research to measuring octyl methoxycinnamate levels using spectrophotometry UV-Vis method and validation of analytical methods is carried out to ensure that the results of the analysis carried out are accurate and careful so that they can be reliable.

*Keywords: Analytical method validation, Cosmetics, OMC concentration,
Sunscreen compounds, UVB filter.*

(xi+35)

Reference (1995-2023)