

# Cocoa pod extract deemed effective as antiwrinkle gel

April 8 2016

---



(HealthDay)—Cocoa pod extract (CPE) can be used as an active

ingredient of antiwrinkle products, with effects seen after three weeks of application of CPE gel, according to a study published online April 4 in the *Journal of Cosmetic Dermatology*.

Azila Abdul Karim, from the Malaysian Cocoa Board in Nilai, and colleagues used liquid chromatography-mass spectrometry to screen the active compounds in CPE. The concentration of CPE needed to maintain the viability for at least 50 percent of [fibroblast cells](#) was determined (EC<sub>50</sub>). In order to examine the efficacy of CPE in [gel](#) form, the gel was tested by 12 panelists using Visioscan.

The researchers found that CPE contained malic acid, procyanidin B1, rosmarinic acid, procyanidin C1, apigenin, and [ellagic acid](#). The amount of CPE that could be incorporated into the gel to reach an effective concentration while being nontoxic was calculated using the EC<sub>50</sub> value. With application of CPE gel, skin wrinkles were reduced by  $6.38 \pm 1.23$  percent within three weeks, with further significant improvement after five weeks ( $12.39 \pm 1.59$  percent). After three weeks of CPE gel application the skin hydration increased ( $3.18 \pm 1.06$  percent).

"CPE can be used as the active ingredients in antiwrinkle products, and prolonged application may result in significant visual changes to the naked eyes," the authors write.

**More information:** [Abstract](#)  
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2016 [HealthDay](#). All rights reserved.

Citation: Cocoa pod extract deemed effective as antiwrinkle gel (2016, April 8) retrieved 3 May 2024 from <https://medicalxpress.com/news/2016-04-cocoa-pod-deemed-effective-antiwrinkle.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.