

A healthy diet...

> ...can impact appearance of skin



As nutrition and diet play a big role in skin health, there is a growing demand for "Beauty From Within" solutions.

Beautiful skin starts from within

Reach US\$8.3

Main functional beauty benefits:

Anti-ageing

Sun/UV protection

- - Hair care



Skin ageing and collagen

Collagen is one of the major building blocks of the skin, responsible for its elasticity and strength

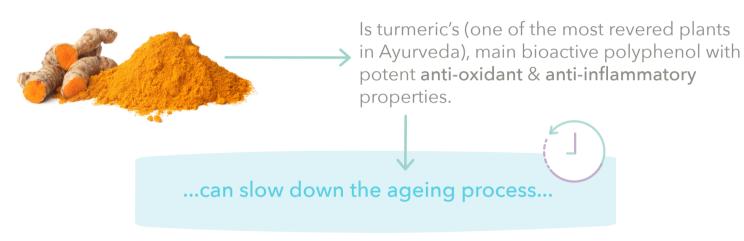
High levels of reactive oxygen species (ROS) lead to the activation of collagenase.

Accumulation of advanced glycation end products (AGEs) leads to more brittle collagen.



Collagen deterioration is linked to skin ageing

Curcumin and skin ageing



However the potential of curcumin is limited by its poor bioavailability.

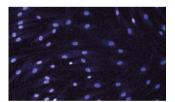
he solution

CURCUSHIN

Bioavailable and dispersible curcumin with anti-aging benefits

Efficacy

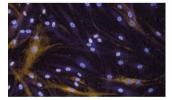
1. In vitro-ROS reduction effect



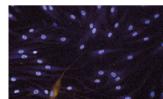


Basal control Medium

ROS control Medium (H₂O₂)



Green Tea Extract 10 µg/mL

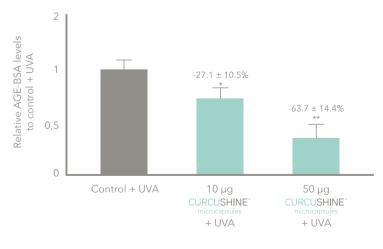


CURCUSHINE[™]microcapsules 10 µg/mL

CURCUSHINE[®] microcapsules shows significant protection vs oxidative stress on HDFa cell cultures

CURCUSHINE[™] microcapsules exhibits better anti-oxidant performance compared to another well-known extract, thus preventing skin ageing from within.

2. In vitro- UVA-induced glycation **Protection**



Benefits



Superior curcumin absorption

- High dispersability
- Protection vs oxidative stress
- Collagen protection

Water dispersibility





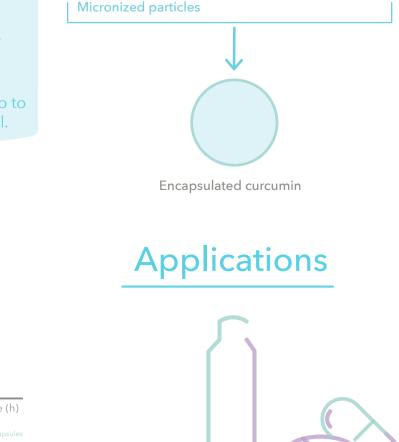
Superior water dispersion of CURCUSHINE[®] microcapsules compared to free curcumin extract.

Technology

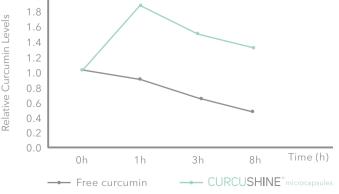


CURCUSHINE[®] microcapsules significantly protects from UVA-induced glycation

The in vitro treatment with CURCUSHINE" microcapsules significantly protects from UVA-induced glycation, by decreasing Advanced Glycation End products (AGEs) up to 63.7%, compared to the untreated control.



3. In vivo Bioavailability test 2.0 1.8



CURCUSHINE[™] microcapsules bioavailability is much higher than control, lasting until 8 hours after the intake

CURCUSHINE[™] microcapsules displays a pharmacokinetics profile of slow release of curcumin compared to the quick absorption, metabolization and removal of free curcumin.

Nutraceutical, functional beverages and nutricosmetic applications.





For more information visit, https://www.lubrizol.com/Health/Nutraceuticals/