

DESERTICA

Infinite vitality
from Desert

DESERTICA is ?

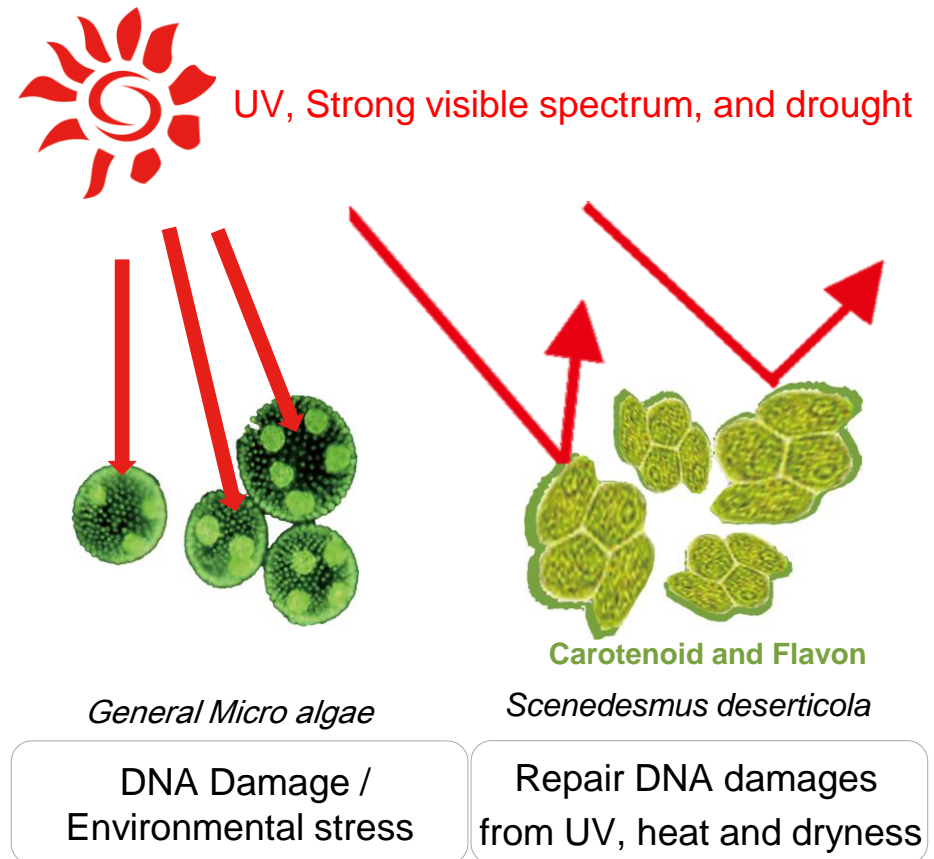
Green micro algae from Desert

Was registered in 2004

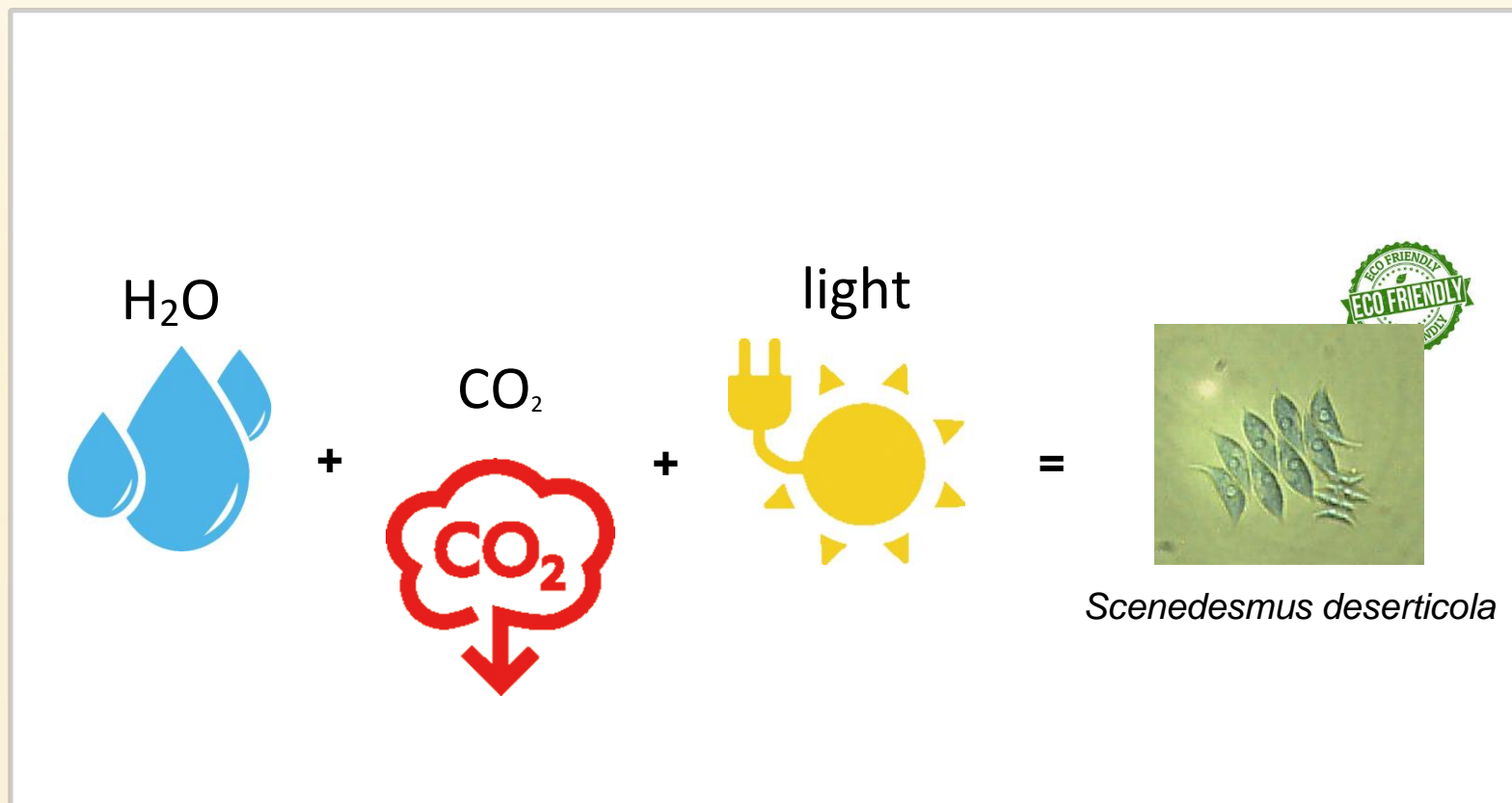
Many researches and studies are ongoing to solve the secret of its strong vital power.

How Desertica works ?

Desertica supports
DNA repair process for Anti-UV,
Anti-Heat, and Anti-Dryness functions.

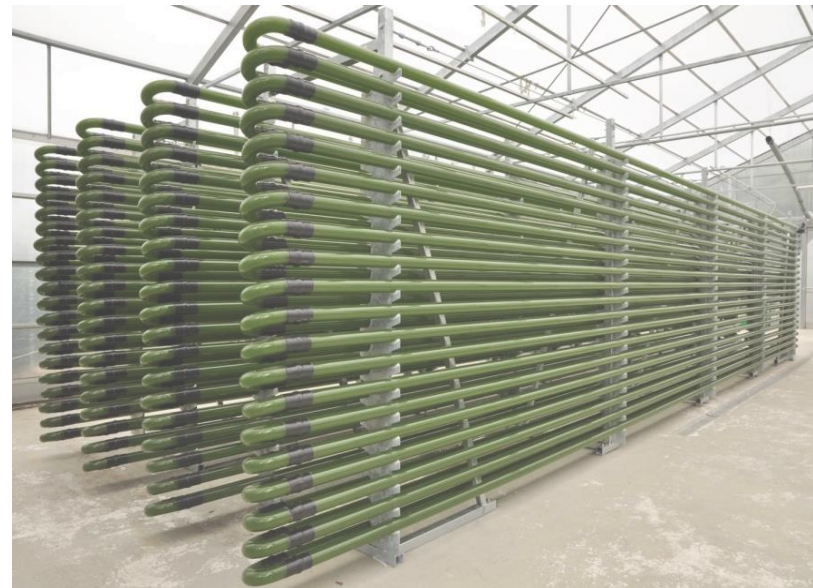
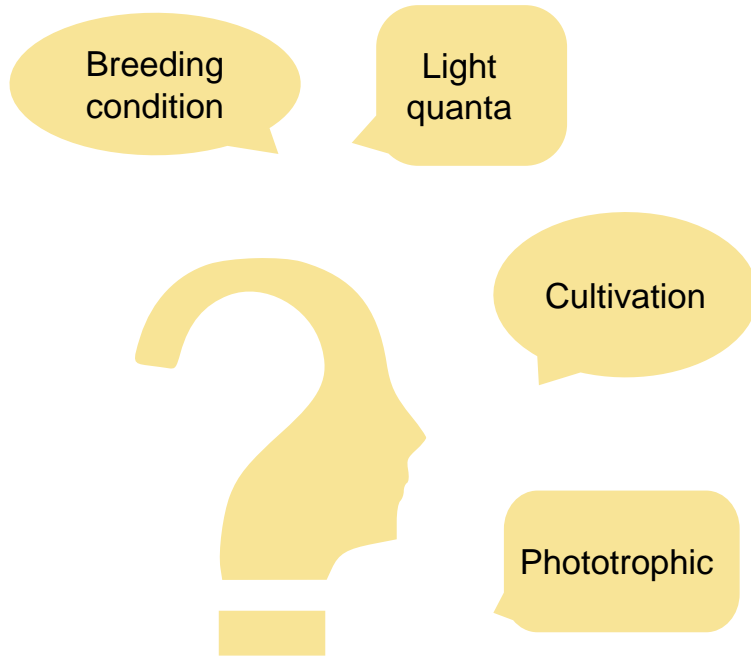


Desertica is eco-friendly



Desertica requires only **water**, **light** and **CO₂** in order to grow,
making it a natural and sustainable option for cosmetics

How we make Desertica?



Facilities for the cultivation of Desertica have to be designed in such a way that **sufficient light** reaches the inside of the system, requiring **light path** sufficiently thin. Also, the **horizontal flow-through elements of tube PBRs** are vertically bundled.

How we make Desertica?

<i>Parameter</i>	<i>PBR SYSTEM</i>
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Contamination risk

Low

Required space

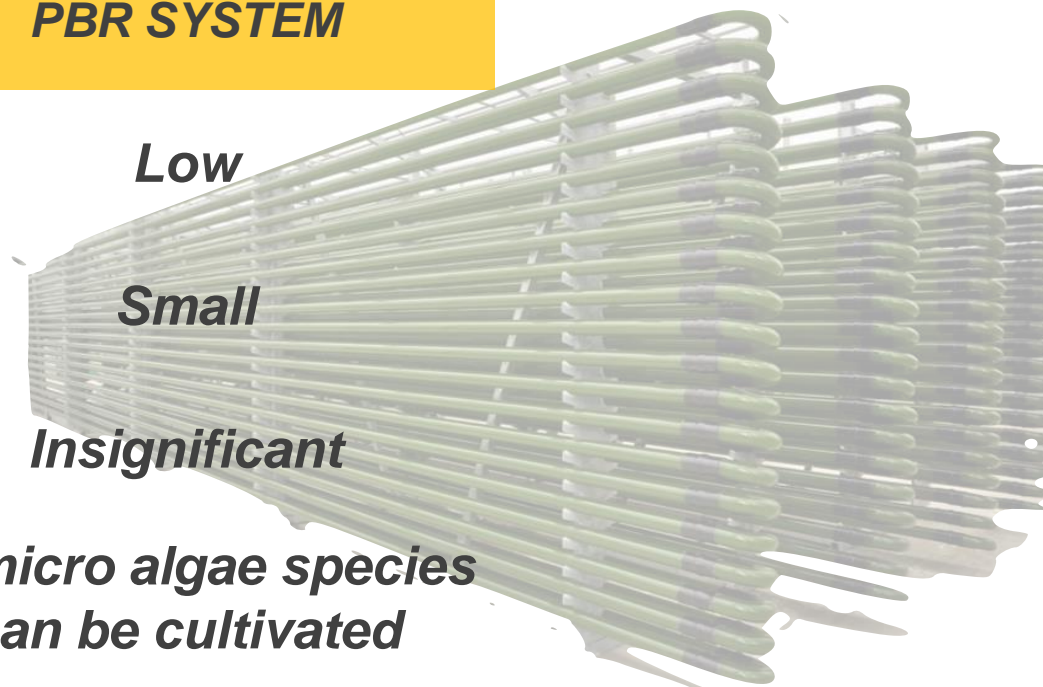
Small

CO₂ Loss

Insignificant

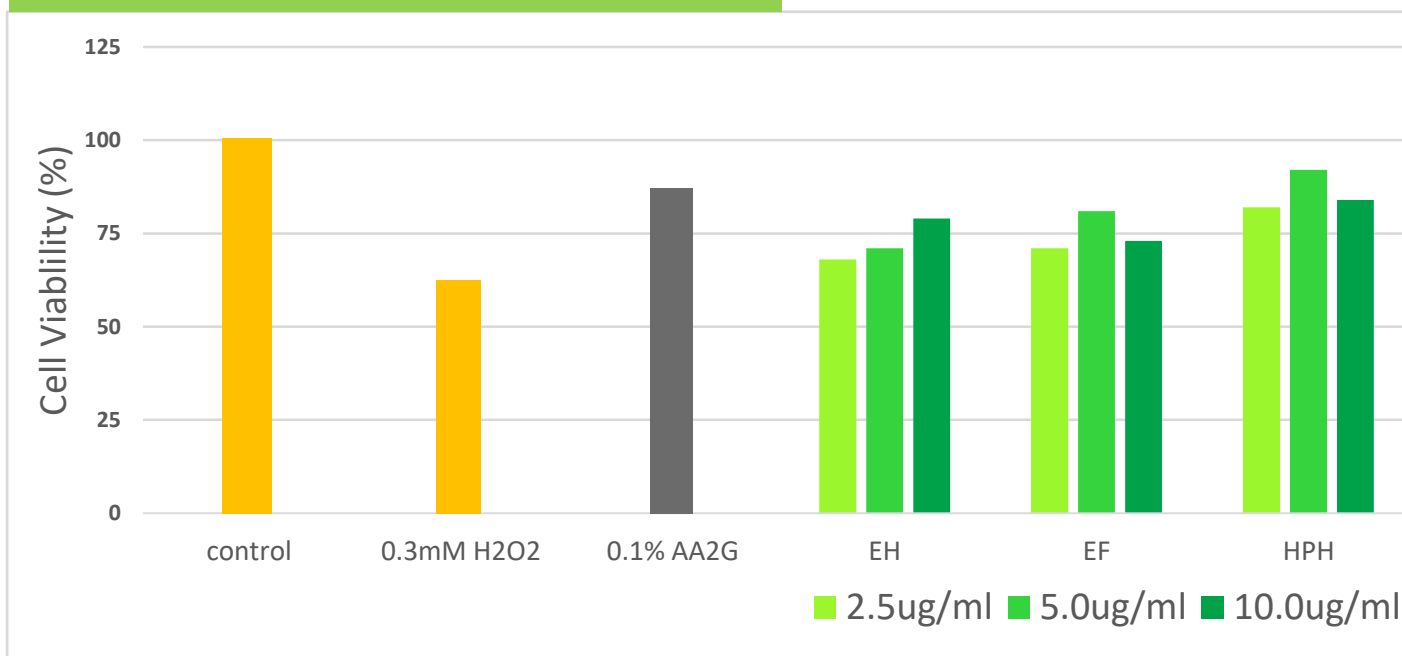
Variability

***all micro algae species
can be cultivated***



What makes **Desertica** special?

Tolerance from oxidative stress

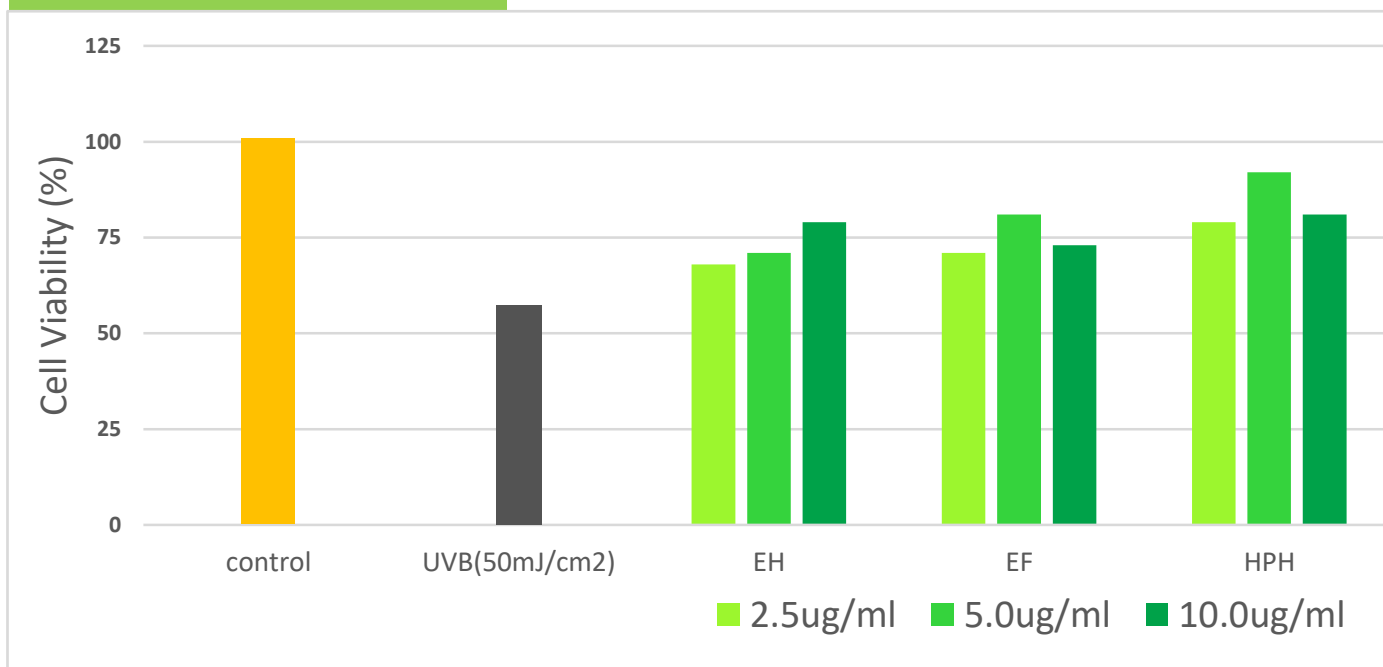


EH: Enzyme Cocktail & Homogenizer EF: Enzyme Cocktail & Freeze-thaw HPH: High pressure Homogenizer

Desertica **lessened** oxidative stress

What makes **Desertica** special?

Tolerance from UV

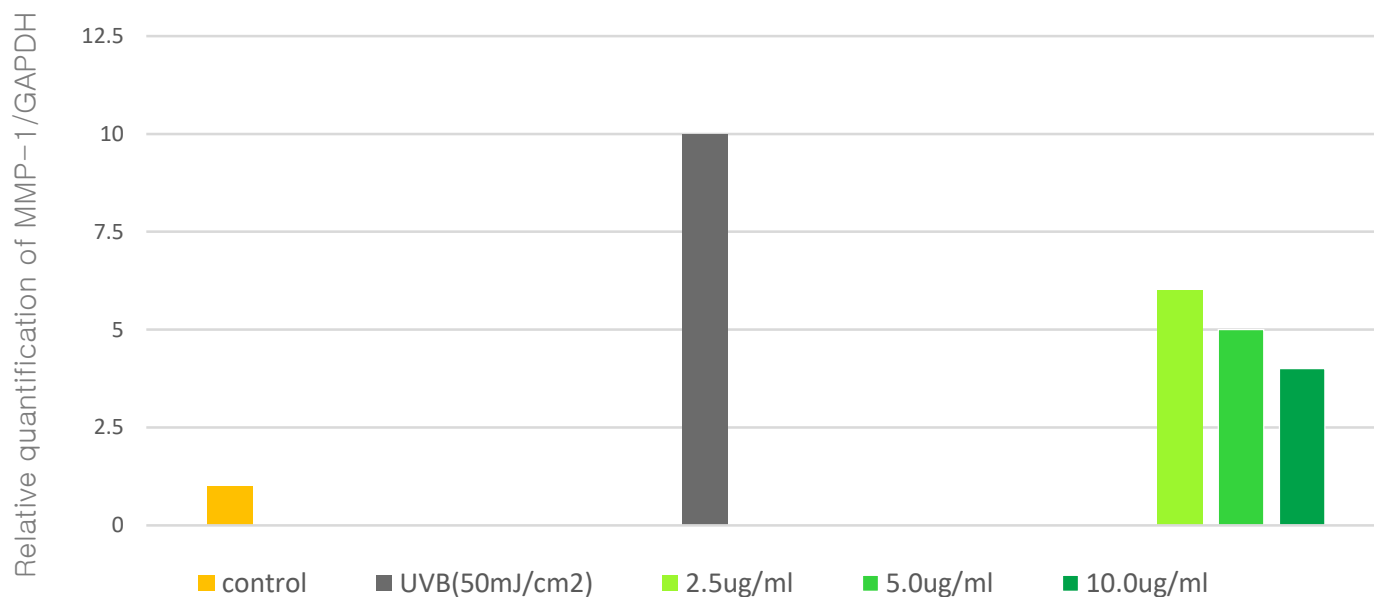


EH: Enzyme Cocktail & Homogenizer EF: Enzyme Cocktail & Freeze-thaw HPH: High pressure Homogenizer

Desertica **raised** cell viability after UV irradiation

What makes **Desertica** special?

Anti-Aging from UVB / HDP cell



Desertica **lowered** mmp-1 quantification(aging inducer)

Clinical Test



Test information

Registered Volunteers	22
Ended Volunteers	22
Gender	Female
Avg. Age	42.68
STDEV	6.03 (min. : 29, max. : 53)
Duration	4 weeks
Treatment	Facial & forearm , Twice/day

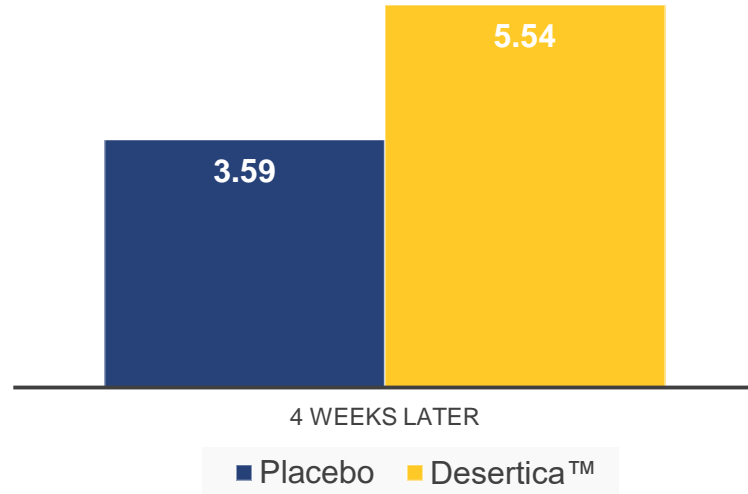
Anti-inflammatory effect

Measurement of skin redness; A* Value

Solar simulator, Antera 3D



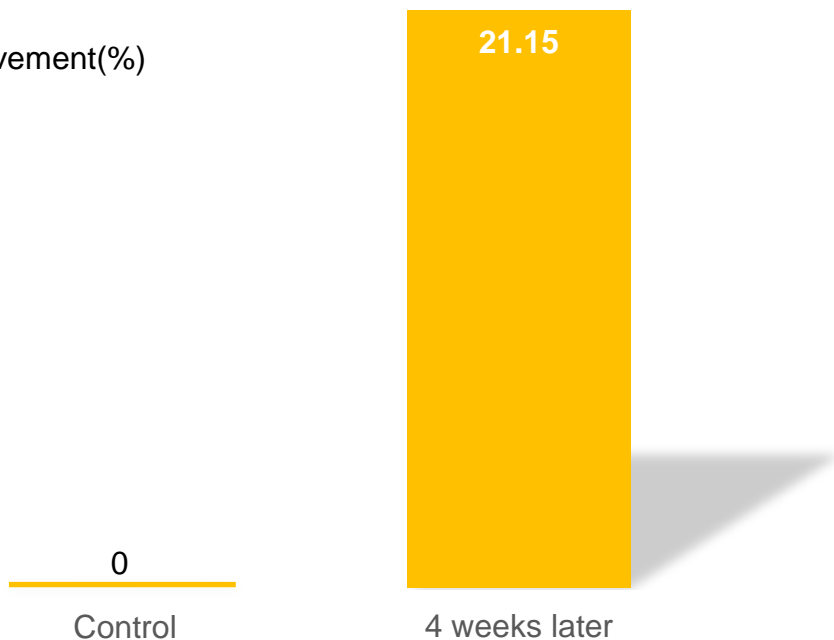
A* Value
Improvement (%)



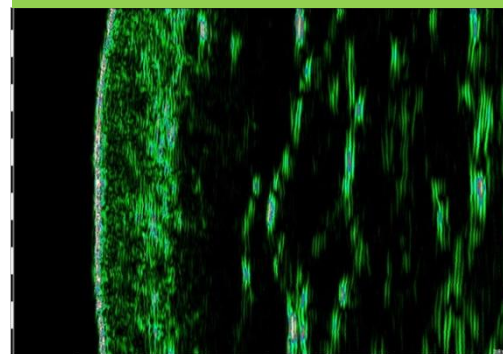
Dermal compactness test

DUB-SKIN Scanner

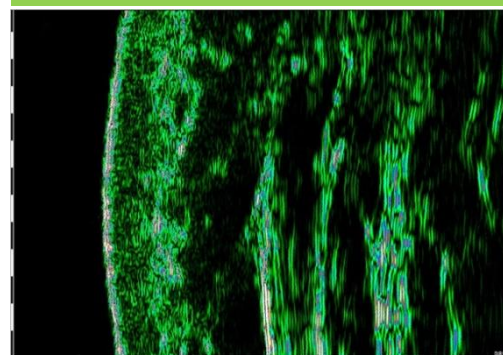
Improvement(%)



Before



4 weeks later



Anti-wrinkle efficacy test

ANTERA 3D : Measurement of wrinkle small value

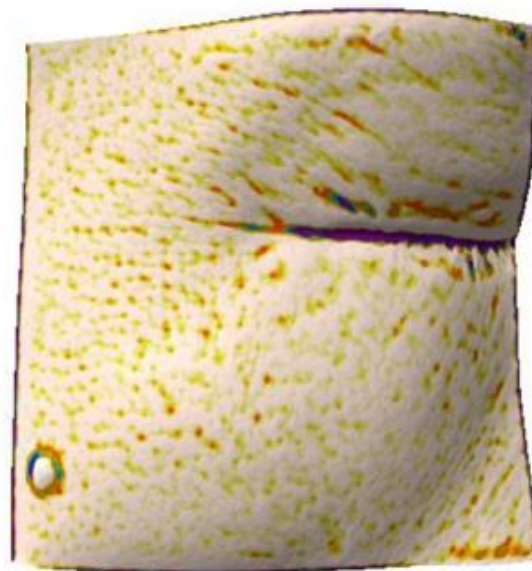
Before



0

Control

4 weeks later

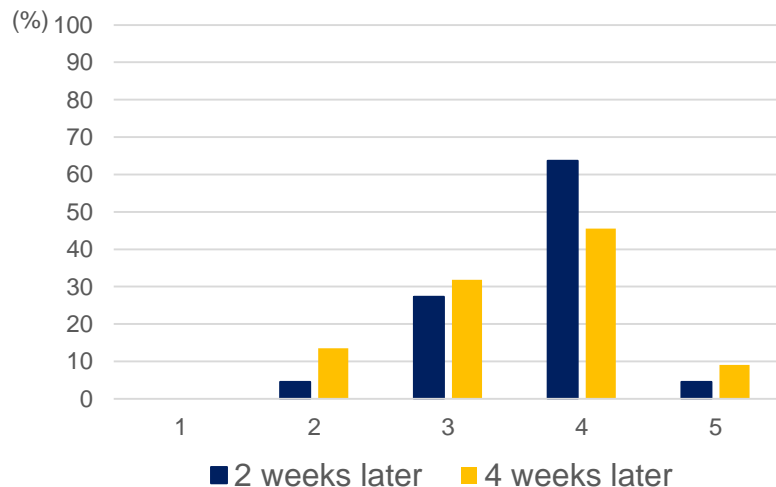


8.35(%)

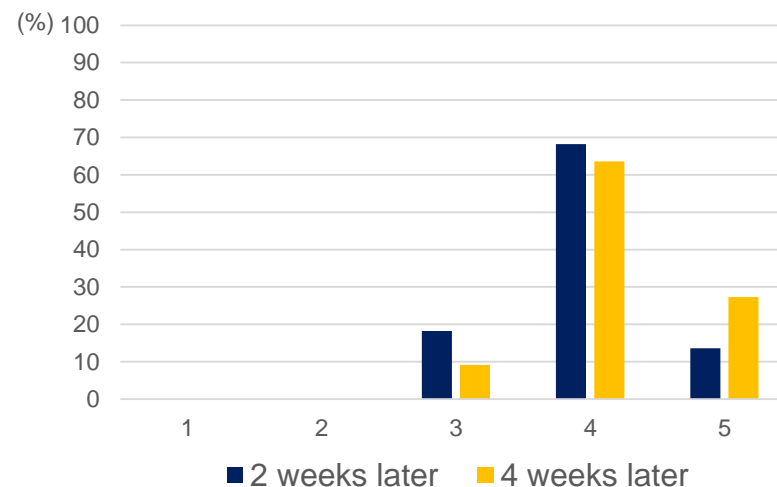
4weeks

Self assessment

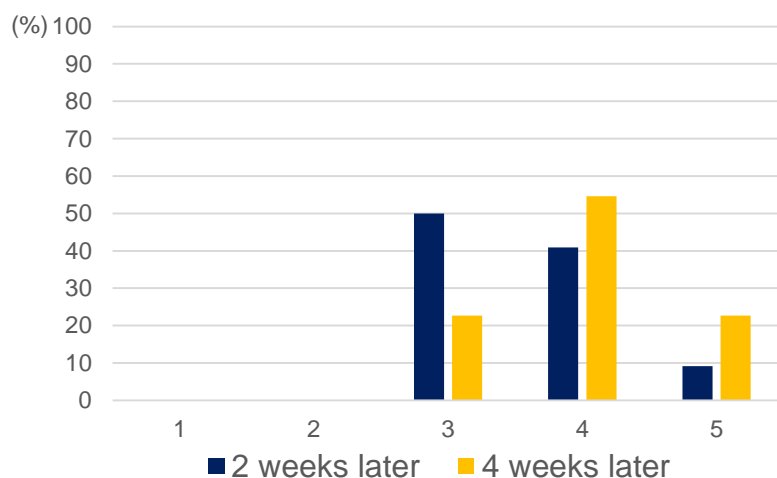
Recovery from UV



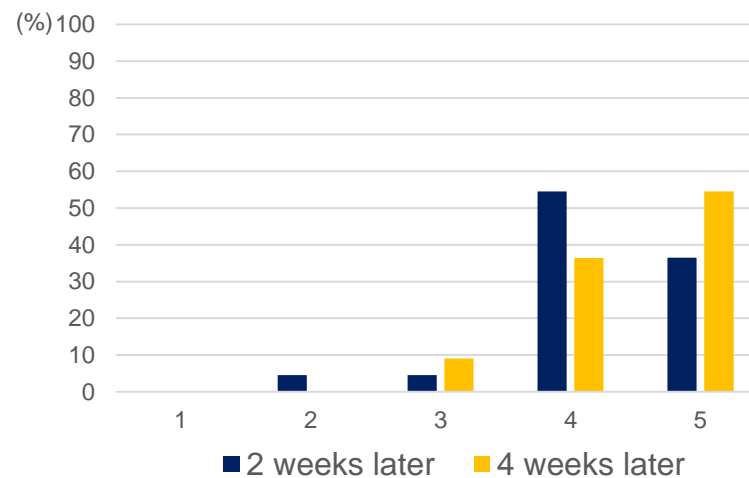
Increase firmness of the skin



Anti-aging



Skin hydration



1. Very unsatisfactory 2. unsatisfactory 3. Normal 4. satisfactory 5. Very satisfactory

Summary of Desertica

<i>INCI Name</i>	Scenedesmus Deserticola Ferment Extract
<i>Define</i>	Desertica is Green Micro Algae found in the desert - severe circumstance with the excessive Heat, UV, and insufficient water. With the ideal extraction from this source, Desertica supports DNA repair process for Anti-UV, Anti-Heat, and Anti-Dryness functions.
<i>Physical characteristic</i>	Greenish liquid
<i>Function</i>	Moisturizing, UV protection
<i>Dosage</i>	1 - 5%



THANK YOU

Infinite vitality
from Desert
DESERTICA