



# CELLUCAP<sup>TM</sup> RESVERATROL

Stabilized Active Resveratrol



Leader in Microencapsulation Technology

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# CelluCap™ Resveratrol

A Powerful Anti-Oxidant, Stabilized

Resveratrol is an antioxidant well known in the beauty industry for its anti-inflammatory and anti-aging properties. However, as resveratrol is not water soluble, and can discolor quickly, resveratrol is also known for its challenging role in creating stable and potent formulations.

Tagra overcomes formulation challenges, and extends the potency of resveratrol, by encapsulating the material in a cellulose based shell. Clinically tested CelluCap™ Resveratrol is an efficient microencapsulation delivery system that prevents discoloration and recrystallization. CelluCap™ Resveratrol demonstrates extended anti-oxidant activity, and is globally compliant.

CelluCap™ Resveratrol's encapsulated resveratrol is easily released upon mechanical pressure, such as a rubbing action. The single layer polymeric shell collapses and breaks down into invisible particles, but still retains the payload to continue and deliver over time. Until the moment of application, CelluCap™ Resveratrol remains fresh and potent.

## Technical Data

INCI	Encapsulated Material	Loading Capacity	Recommended Usage Level	Appearance
Resveratrol, Cellulose Acetate Butyrate, Tricaprylin, Benzotriazolyl Dodecyl p-Cresol, Pentaerythrityl Tetra-di-butyl Hydroxyhydrocinamate	Resveratrol	15%	1-5%	White to off-white powder, less than 50 micron

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## CelluCap™ Resveratrol: Significant Results

### Clinical Results

- In a third-party clinical study, 20 female subjects applied a formula with 5% CelluCap™ Resveratrol (0.7% free resveratrol), twice daily.
- After four weeks, an anti-wrinkle effect was observed in 62% of the subjects, averaging a 7% reduction in wrinkle depth.
- After four weeks, a firming effect was observed in 62% of the subjects
- No participants experienced irritation.

### In a consumer study, after four weeks of use:

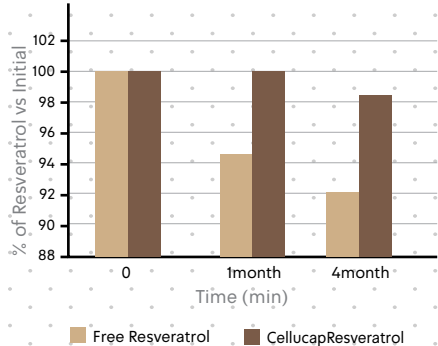
- 77% of participants agree that skin feels significantly firmer
- 86% agreed skin feels smoother
- 81% agreed that skin appears more luminous, and skin clarity is improved, leaving a healthy and even tone



Picture: Organoleptic evaluation of formulations containing 4.25% CelluCap Resveratrol. (left) or 0.6% free resveratrol (right) following 4 months storage at 40°C.

## Formulating with CelluCap™ Resveratrol

- o CelluCap™ Resveratrol is gradually added at the last stage of formulation preparation, using a simple paddle/anchor type mixer at 70–300rpm. Do not apply shear force.
- o Incorporation should be done at temperature up to 50°C.
- o No need for nitrogen environment while formulating with CelluCap™ Resveratrol.
- o Compatible with all types\* of cosmetics formulations
- o CelluCap™ Resveratrol is globally compliant including China, non-GMO, and is BSE, Halal, and vegan compliant.
- o CelluCap™ Resveratrol is non-nano, preservative free, and free from microplastics.



### Activity

Graph 1: CelluCap™ Resveratrol shows improved stability and longevity over unencapsulated (free) resveratrol after 4 months at 25°C

\* Formulations should not contain more than 20% of Alcohols and/or Glycols in total.

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Tagra Biotechnologies is a leading manufacturer and supplier of microencapsulated ingredients for the cosmetic industry for more than 20 years. Tagra provides a wide range of innovative highly functional active microencapsulated ingredients for improved stability efficacy while overcoming incompatibilities.

For more information and samples please contact: [info@tagra.com](mailto:info@tagra.com)

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