

CLAGLUTATIONE

>> STABILIZED GLUTATHIONE FOR SKIN DETOXIFYCATION

ANTI-POLLUTION AND "ANTI-INFLAMMAGING" COMPLEX FOR SKIN PURIFICATION

CLA Glutatione is a skin detoxifying active based on an exclusive lipo-tripeptide made of condensed **conjugated linoleic acid (CLA) and glutathione (GSH)**.

Compared to most of the market products, glutathione is stabilized through a specific technology where the functionalization with CLA protects its active thiol, preserving GSH anti-oxidant action and overall stability through a smart steric hindering given by CLA long and flexible fatty chain.

CLA Glutatione displays an innovative in vivo mechanism aimed to:

- counteract skin inflammations and oxidative stress
- promote the formation of anti-inflammatory prostaglandin (PGE2)
- **increase the endogenous production of Glutathione**, to increase skin protection against pollutants and promote its purification.

>> Positioning

FUNCTIONAL AND TECHNOLOGY HIGHLIGHTS

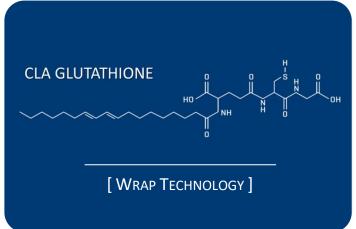
- Stabilized glutathione complex through the innovative "wrap" technology
- Skin detoxifying
- "Anti-inflammaging" and soothing action through in vivo activated reaction
- Anti-pollution
- Skin revitalizing after UV exposure
- Skin softness and emolliency
- Ideal for skin care, hair care, make up and toiletries applications





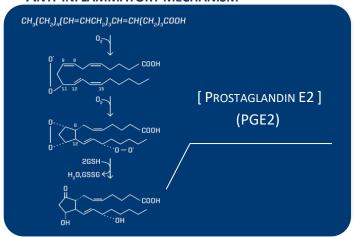


GLUTATHIONE STABILIZATION



GSH is stabilized through the condensation with CLA long and flexible fatty chain, that wraps and hinders GSH functional site.

ANTI-INFLAMMATORY MECHANISM



After the skin application, CLA is converted through a multi-step reaction in PGE2, molecule with anti-inflammaging action

CLA BENEFICIAL EFFECTS SUMMARY

- Precursor of the anti-inflammatory PGE2; increases endogenous GSH production.
- Increases the delivery of GSH and oligopeptides linked to it (permeation enhancer).
- Stabilizes GSH by "wrapping" action promoted by its flexible long chain (steric hindering).
- Stable to oxidation in cosmetics formulations.

GLUTATHIONE BENEFICIAL EFFECT SUMMARY

- Free radical scavenger.
- Activates the bio-conversion of CLA to PGE2 (as reducing co-factor).
- Plays an essential role in the elimination of toxic substances (eg. pollutants).

CLA and GSH show a unique biological synergistic action. Above the key aspects related to CLA features that maximize GSH activity

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>> TECHNICAL OVERVIEW

PH OF USE	% OF USE	APPLICATIONS	SOURCING	FORMULATION TIPS	
5.5 ÷ 8.0	1.0 ÷ 5.0	Skin care emulsions, gels and lotions; toiletries, make up and hair/eye lashes care products	Vegetable/ biotechnology	Add in cold process	

[INCI NAME : potassium glutathione isomerized linoleate, aqua]

