

LIPOCLARE

Cobiosa
www.cobiosa.com



3% Kojic acid liposomes.

Unlike traditional liposomes formulated with soy lecithin and manufactured with basic methods, INdermal technology offers new generation vesicles, applying **medical technology** to **dermocosmetics**.

- Very stable and resistant
- Maximized effectiveness
- Smart release system
- Biomimetic composition
- Increased potency while improving the active ingredient safety and stability: **x8.16** compared to free Kojic acid.

INCI NAME

Aqua, Mannitol, Phosphatidylcholine, Glycerin, Kojic Acid, Cholesterol, Polysorbate-80, Tocopheryl Acetate, Xanthan Gum, Sodium Chloride.

DOSE OF USE:

1% - 10%

SOLUBILITY:

Hydrodispersible.

PRESERVATIVE:

Potassium sorbate.
Sodium benzoate.

MARKETING CLAIMS:

- Dermocosmetic technology
- Anti-photoaging
- Depigmenting
- Skin brightener & tone corrector
- UV protection
- Prevents premature aging
- Prevents age spots
- Phospholipids from pharmaceutical grade
- Biomimetic liposomes
- Less active ingredient for same activity.
- **x8,16** more effective than free Kojic acid.

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N a t u r a l l y E f f e c t i v e

DEPIGMENTING ACTIVITY - MELANIN QUANTIFICATION

- Ex-vivo test in human skin.
- Skin exposure to UV radiation at T=1, T=2, T=3 and T= 4 days.
- Addition of the tested products (LIPOCLARE and free Kojic acid) at T=2, T=3 and T=4 days.
- Quantification of melanin at T=5.



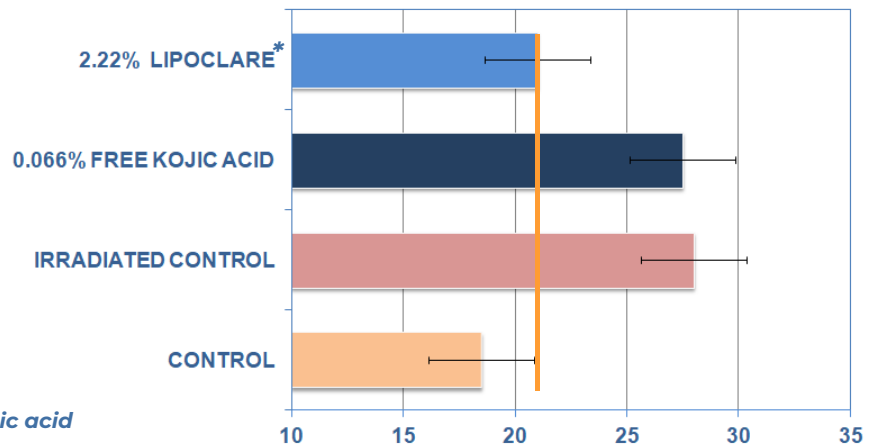
RESULTS: IMMEDIATE ACTIVITY MELANIN REDUCTION IN JUST 5 DAYS

Immediate Efficacy

2,22% LIPOCLARE proved to be **much more effective** than free Kojic acid, reducing the **amount of melanin to levels close to the non-irradiated control in just 5 days.**

**2.22% LIPOCLARE is equivalent to 0.066% free kojic acid*

Melanin synthesis (μg)

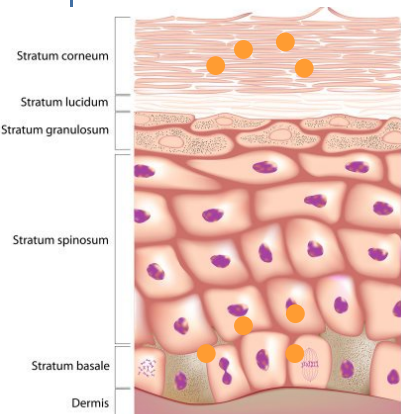


THE CONCENTRATION OF LIPOCLARE WAS X1.25 TIMES HIGHER IN THE STRATUM CORNEUM AND X8.16 TIMES HIGHER IN THE BASAL EPIDERMIS

FREE KOJIC ACID

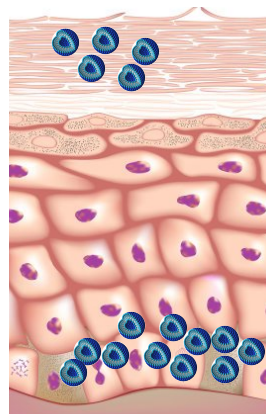
LIPOCLARE

LIPOCLARE vs FREE KOJIC ACID



[Kojic acid]=
2,4 $\mu\text{g}/\text{cm}^2$

[Kojic acid]=
1,2 $\mu\text{g}/\text{cm}^2$



[Kojic acid]=
3,0 $\mu\text{g}/\text{cm}^2$

[Kojic acid]=
9,8 $\mu\text{g}/\text{cm}^2$

x1,25

x8,16

N a t u r a l l y E f f e c t i v e