

Actives

PRODUCT DOSSIER

LIPOCAPIL ™

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VERSION 1.01

BEAUTICS
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LIPOCAPIL™ System

Advanced Follicular Signaling & Androgen Stress Control Complex

1. What Is LIPOCAPIL™

LIPOCAPIL™ is an advanced liposomal follicular activation complex designed to support hair growth biology through multi-target follicular signaling. It combines biomimetic peptides, botanical androgen modulators, and growth factor-inspired technology to improve dermal papilla function, support follicular longevity, and reduce androgen-induced follicular stress.

The liposomal delivery system enhances ingredient stability, scalp penetration, and bioavailability for optimized efficacy.

2. Composition

Active Ingredient	Primary Function
Biotinyl-GHK (Biotinyl Tripeptide-1)	Supports extracellular matrix proteins and follicular anchorage
Apigenin	Enhances scalp microcirculation
Oleanolic Acid	Reduces 5α-reductase activity and androgen stress
Sh-Oligopeptide-54 (FGF mimic)	Supports follicular signaling pathways
EGCG (Epigallocatechin Gallate)	Provides antioxidant and anti-inflammatory protection
Liposomal Delivery System	Enhances bioavailability and targeted delivery

3. Mechanism of Action

3.1 Dermal Papilla Activation

- Supports dermal papilla cell proliferation and cellular communication necessary for healthy follicular activity.

3.2 FGF-Mediated Follicular Signaling

- Sh-Oligopeptide-54 supports fibroblast growth factor (FGF)-associated pathways involved in follicular maintenance and hair cycle regulation.

3.3 Androgen Stress Reduction

- Oleanolic acid and EGCG help reduce DHT-associated follicular stress by modulating 5α-reductase activity.

3.4 Improved Scalp Microcirculation

- Apigenin supports nutrient and oxygen delivery to the follicular environment.

4.5 Enhanced Delivery Technology

- Liposomal encapsulation improves ingredient stability and increases scalp bioavailability.

4. Recommended dose level

INGREDIENT	CONCENTRATION
LIPOCAPIL ™	2.0 – 3.0%

5.Pharmaceutical Characterization

PARAMETER	SPECIFICATION
SYSTEM TYPE	Liposomal follicular signaling and androgen stress control complex
SOLUBILITY	Dispersible in water-based systems; compatible with aqueous serums, scalp tonics, lotions, and leave-on formulations
STABILITY	PH 4.5 – 6.0
APPERENCE	Light yellow to amber translucent liquid dispersion

6. Role in Cosmetic Formulations

Benefits

- Advanced Follicular Signaling Support
- Dermal Papilla Activation
- Androgen Stress Control
- Hair Density Enhancement
- Reduced Hair Shedding
- Hair Fiber Strengthening

7.Formulation Considerations

7.1 Handling

- Add LIPOCAPIL™ during the cool-down phase of the formulation (≤ 40°C) to preserve the integrity of the peptide actives and liposomal delivery system.
- Avoid prolonged exposure to elevated temperatures, direct sunlight, and excessive aeration.
- Use gentle to moderate mixing; avoid high-shear homogenization after addition.
- Do not freeze the product.
- Keep containers tightly closed when not in use.
- Store in the original container under recommended storage conditions.

7.2 Compatibility

- Works synergistically with:
    - HYASIL system
    - PDRN
    - Peptides (e.g., copper peptides)

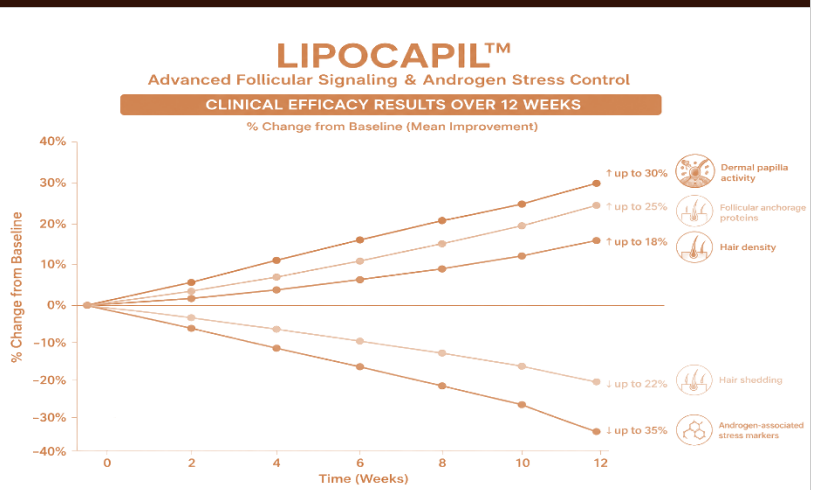
8.Applications

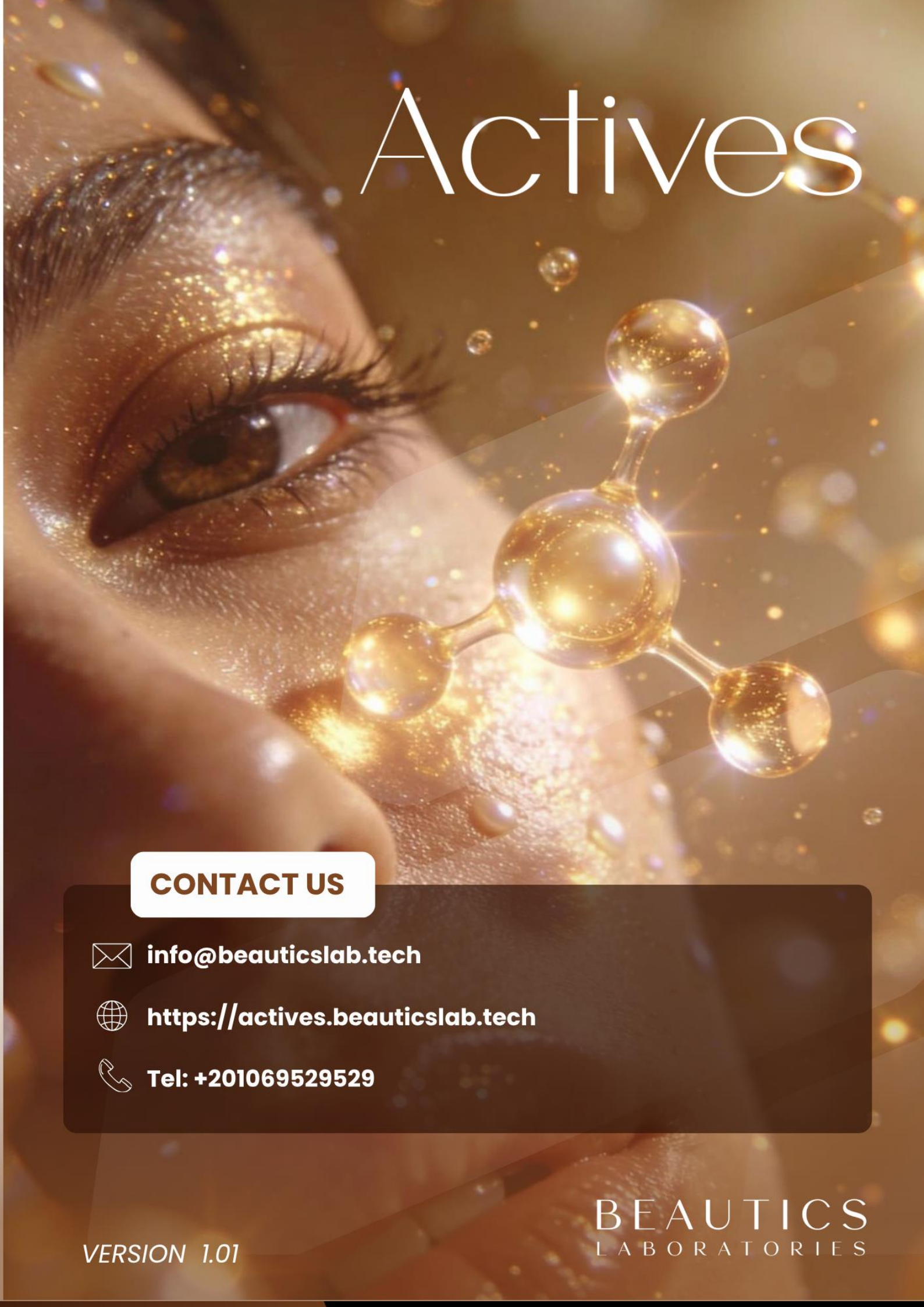
- Hair Growth Serums
- Anti-Hair Loss Serums
- Scalp Tonics
- Leave-on Scalp Lotions
- Hair Ampoules
- Hair Regeneration Treatments
- Professional Scalp Treatments
- Hair Density Boosters

9. clinical claims

After **12 weeks** of continuous topical application:

PARAMETE	OUTCOME
Dermal papilla activity	↑ up to 30%
Follicular anchorage proteins	↑ up to 25%
Hair density	↑ up to 18%
Hair shedding	↓ up to 22%
Androgen-associated stress markers	↓ up to 35%





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