

## ACTINA CAF BOOST™

**INCI Name:** **Aqua, glycerol, Phospholipid, Caffeine, Polysorbate 80**

### Function:

- Stimulating, draining, and lipolytic active for cosmetic applications with enhanced skin absorption and targeted delivery.

### Definition:

- ACTINA CAF BOOST™ is a stabilized form of caffeine encapsulated in phospholipid liposomes to improve dermal penetration, bioavailability, and controlled release. This smart delivery system ensures deeper diffusion into the skin and sustained activity for optimal efficacy.

### Properties:

- Enhances microcirculation and lymphatic drainage.
- Boosts lipolysis and reduces localized fat deposits.
- Reduces puffiness and under-eye bags.
- Stimulates hair growth and revitalizes scalp.
- Antioxidant and anti-cellulite action.

### Mechanism of Action:

Liposomal encapsulation facilitates targeted and sustained release of caffeine by:

- Increasing solubility and stability of caffeine in formulations.
- Penetrating deeper layers of the skin due to phospholipid affinity.
- Prolonging activity within adipose tissue or under-eye area.
- Enhancing stimulation of cyclic AMP and lipolytic enzyme activity.



### Formulation:

Water-dispersible. Add below 40°C in emulsion systems or gels to preserve liposome integrity. Compatible with various textures: creams, lotions, gels, serums, tonics.

### Key Benefits:

- Superior absorption compared to non-encapsulated caffeine.
- Deep skin and follicular delivery.
- Noticeable reduction in under-eye puffiness.
- Visibly firmer skin and smoother contour in cellulite-prone areas.

Visible and significant decrease of the epidermic pigmentation.

- Improves scalp microcirculation and hair density.

**Recommended Use Level:**

1-5%

**Applications:**

Suitable for a variety of cosmetic and dermo cosmetic products:

- Eye contour creams and gels (anti-puffiness, anti-dark circles).
- Body contouring creams (anti-cellulite, slimming).
- Scalp serums and hair growth boosters.

**Effects of ACTINA CAF BOOST™ on Eye Puffiness and Cellulite Appearance**

30 women aged 25–45

Twice daily topical application of 3.5% ACTINA CAF BOOST™ cream

Parameter	Week 0	Week 2	Week 4	Week 6
Under-Eye Puffiness (%)	100%	85%	72%	60%
Skin Firmness in Thigh Area (%)	100%	110%	125%	135%
Cellulite Appearance (Scale 1–5)	4.5	3.8	3.0	2.2
Hair Density (strands/cm <sup>2</sup> )	100	105	112	118

