



ANAGELINE® Bio

A nutritive and revitalizing cocktail of natural origin for the bulb and hair, consisting of an organic vegetal extract rich in peptides, trace elements, and vitamins

Mechanism of Action

- Inhibits 5 α -reductase activity, limiting the transformation of testosterone into DHT.
- Increases vascular density around the hair follicle, facilitating the supply of oxygen and nutrients.
- Stimulates the differentiation capacity of hair bulb cells and favors keratinization.

Efficacy and Benefits

- Regulates the hormonal balance
- Improves the microcirculation of the scalp
- Hair density returns to normal
- Reduces hair loss

*Clinically validated triple action

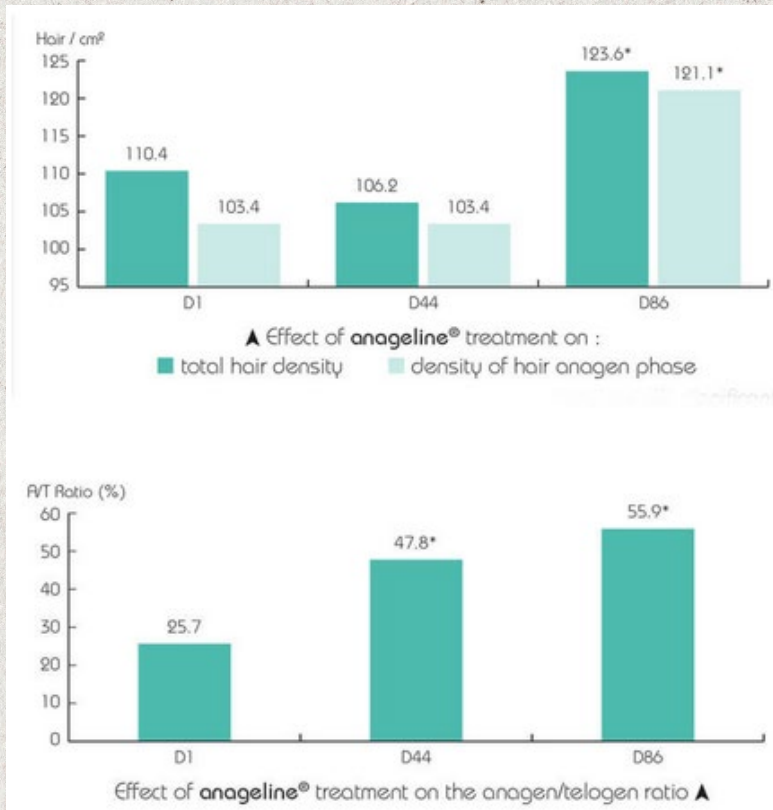
ANAGELINE® slows hair loss

Anti-hair loss effect

Phototrichogram method

16 male volunteers between 18 and 65 years of age with slight to moderate baldness. The aim of this study was to determine the action of **anageline®** tested at 10% in lotion on reducing the rate of excessive hair loss.

After 12 weeks of treating balding subjects with **anageline®**, the hair density and the anagen/telogen ratio both stabilized,, showing a significant action on reducing hair loss (see figures below)



*Statistically significant increase compared to D1

ADANDRINE®

Is a natural anti-dandruff ingredient produced from pomegranate peel which is rich in hydrolysable tannins

Mechanism of Action

- Controls microbial proliferation by inhibiting the growth of *Malassezia furfur*
- Restores the balance of the epidermal differentiation process by stimulating the synthesis of involucrin, allowing full maturation of the stratum corneum
- Significantly improves the condition of the scalp and soothes irritation and itching

Efficacy and Benefits

- Anti-inflammatory
- Restores the health of the scalp
- Strengthens the barrier function
- Significantly reduces scales and itching and improves the general state of the scalp.

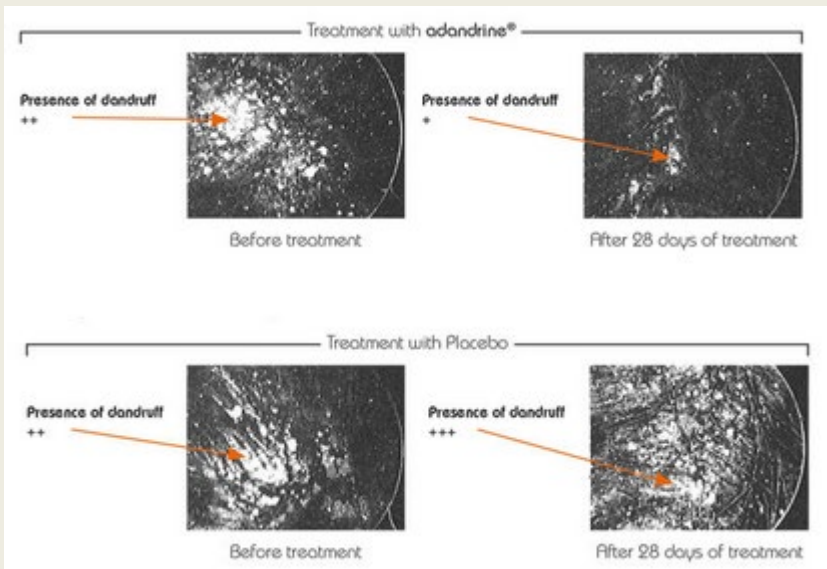
These studies were conducted to quantify the anti-dandruff effect of **adandrine®** formulated at 4% in a shampoo vs. placebo. and formulated at 4% in a lotion vs. placebo.

Adandrine® formulated in a shampoo:
2 groups of 17 healthy volunteers (mean age 36 +/- 10 years and 36 +/- 13 years) selected by a professional hairdresser because they had dandruff.

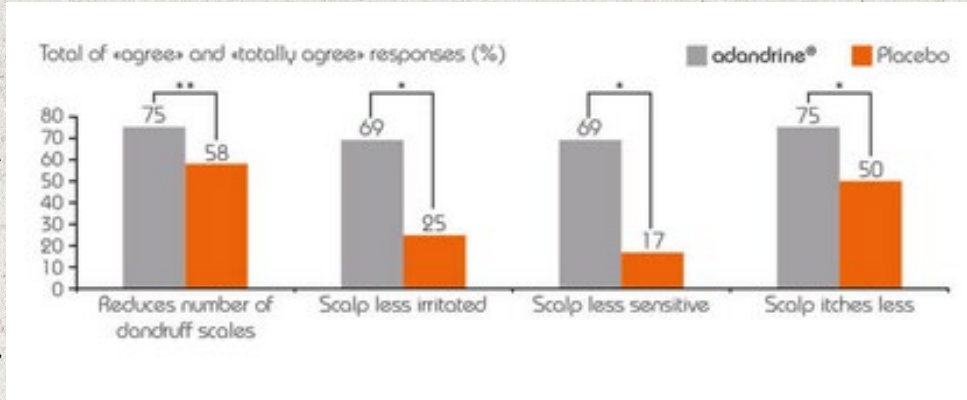
Study of D-Squames® using a profilometer equipped with a QUANTISQUAM 99® image analyzer.

After sampling the scalp with adhesive D-Squames® before and after one month of treatment every two days, **adandrine®** significantly reduced the desquamation index (-30% $P=0.0087$) and the total surface occupied by dandruff (-21% $P=0.0533$).

***Clinically validated triple action**



Clinical efficacy



Hairdresser evolution

In the conditions of the study and after 28 days of use every two days, a hairdresser evolution using a scoring scale showed the anti-dandruff effect of adandrine®: 27% reduction of dandruff (P=0.0672).

Subjective evolution (figure opposite)

The sensations felt when using adandrine® vs. placebo were determined using auto-evolution questionnaires returned after 28 days of use every two days.



BIOECOLIA®

An α -glucan oligosaccharide obtained by enzymatic synthesis from natural sugars (sucrose and maltose)

Mechanism of Action

- Activates the capacity of commensal bacteria to induce the expression of antimicrobial peptides via the stimulation of the development of the beneficial Ecoflora.
- Induces the expression of anti-microbial peptides via the interaction with keratinocyte immunologic receptors.
- Constitutes a cell-cell communication path, via the binding of keratinocyte membrane lectins, which is capable of activating signalization paths that could lead to the production of anti-microbial antibodies.

Efficacy and Benefits

- Acts as a protective and biostimulating agent.
- Performs prebiotic action for controlling the integrity of natural flora.
- Is a bioselective substrate for beneficial microbial flora, ecoflora, to the detriment of pathogens and undesirable flora.
- It offers gentle protective and restoring action for the scalp.



CAPIXYL™

The patented complex composed by a biomimetic peptide of four amino acids and red clover extract rich in Biochanin A

Mechanism of Action

- Red clover (*Trifolium pretense*) was traditionally used to treat inflammatory skin disorders such as eczema & psoriasis.
- Red Clover Extract is naturally rich in Biochanin A.
- Biochanin A is an effective inhibitor of 5- α -reductase activity.
- Acetyl Tetrapeptide-3 4 amino acids biomimetic peptide derived from a signal peptide which stimulates tissue remodeling.

The peptide has a direct effect on the hair follicle. Acetyl Tetrapeptide-3 stimulates dermal papilla extracellular matrix proteins and has a direct effect on hair follicle size and anchoring.

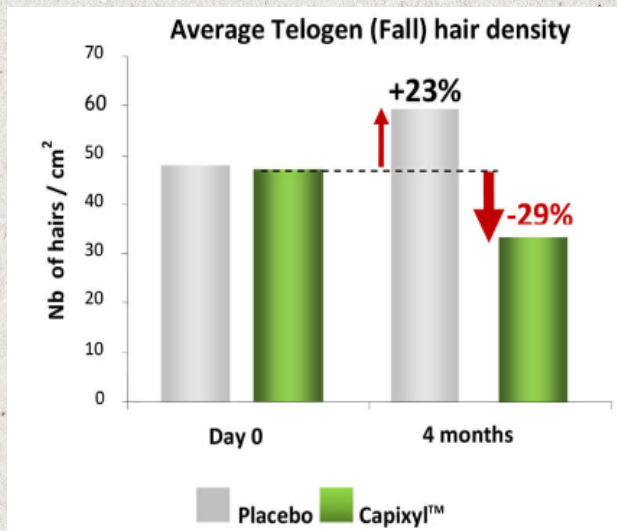
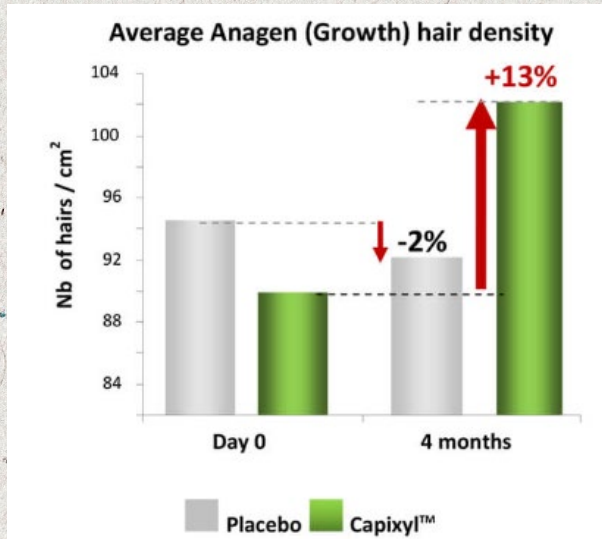
Efficacy and Benefits

- Biochanin A (Red Clover) inhibits 5 – alfa reductase reducing DHT production: No follicles miniaturization. Normalization of the hair cycle.
- Acetyl Tetrapeptide-3 (biomimetic peptide) Stimulates ECM proteins synthesis and collagen production increasing hair follicle size and improving dermal anchoring.
- The complex constituted by Biomimetic peptide + Red Clover Extract decreases pro-inflammatory cytokines level. Inflammation reduction.

*Clinically validated triple action

Clinical efficacy

CAPIXYL™ increases anagen hair density & decreases telogen hair density



Clinical efficacy

CAPIXYL™ increases both length & density of eyelashes

5 times longer



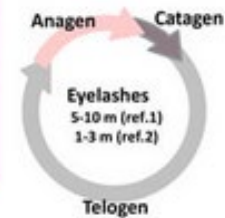
Increase density



+ 45% new lashes

93% satisfaction

	Anagen Growth phase	Catagen Transition phase	Telogen Resting phase	Growth rate
Hair follicle	2-6 years 70 – 85% hair	100 days 15-30% hair		0.3-0.4 mm daily
Eyelashes	1 – 3 m (ref.1) 22-55 d (ref.2) 15-40%	4-9 m (ref.1) ~2 m (ref.2) 60-85% lashes		0.12 mm daily



KAPILARINE®

The vegetal complex composed by extracts from four different plants: *Kigelia Africana*, *Ginkgo Biloba*, *Salvia Sclarea*, *Zeylanicum Cinnamon*, working in synergy and help to rebalance scalp's condition and limit hair loss

Mechanism of Action

- Kigelia fruits contain saponoids and flavonoids with hormone-like properties which contribute to inhibit 5- α reductase and stimulate dermis cells activity. Flavonoids, in particular, have vein tonic action that stimulates scalp microcirculation.
- Salvia exhibits strong anti-oxidant and anti-inflammatory properties.
- Cinnamon has anti-bacterial efficacy and soothing action.
- Ginkgo Biloba improves tissue hydration and helps to activate cellular metabolism.

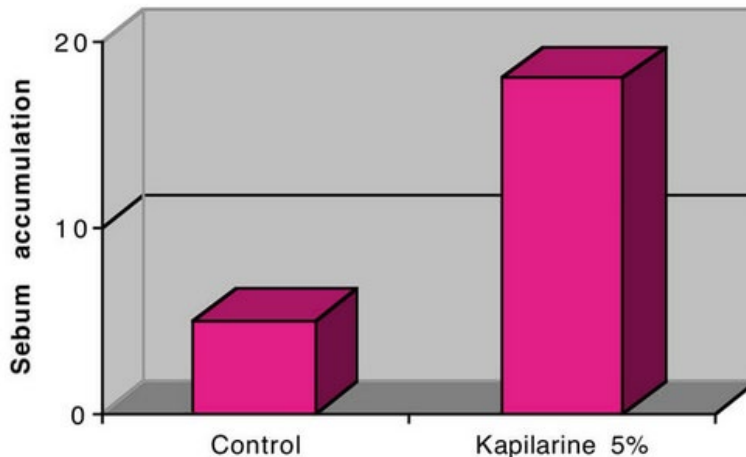
Efficacy and Benefits

KAPILARINE® acts synergistically on the main factors avoiding hair loss:

- 5- α reductase inhibition
- Scalp microcirculation improvement
- Dermis regeneration by activating cellular metabolism
- Decrease inflammation and consequently helps to reduce seborrhea

Effect of Kapilarine® in microcirculation of skin

*Clinically validated triple action



Microcirculation was evaluated by measuring the cutaneous thermal conductivity ($\text{mW}/\text{cm}^{\circ}\text{C}$) on 5 lumbar part of the back of 10 volunteers, 60 minutes after application of Kapilarine at 5%. Measurement was done on back skin because it was easier than done directly on the scalp.