SWISS ENERGY
By Dr. FREI®

CAPIXAN

REVOLUTIONARY SWISS COMPLEX AGAINST HAIR LOSS

Hair Growth Stimulator!

- Stimulation of new hair growth
- Stopping Hair Loss
- Lost hair restoration
- Strengthening hair and increasing their volume
- Restoring the nutrition of the hair follicle

THE IMPORTANCE OF HAIR CANNOT BE OVERSTATED

Whether men or women lose their hair, they lose much more than their natural, youthful appearance. People also lose self-esteem and self-confidence.

Hair loss, also called alopecia, is a common problem affecting both men and women. There are several main types of hair loss, but the most common is **androgenetic alopecia.**

CAUSES OF HAIR LOSS

Reason 1

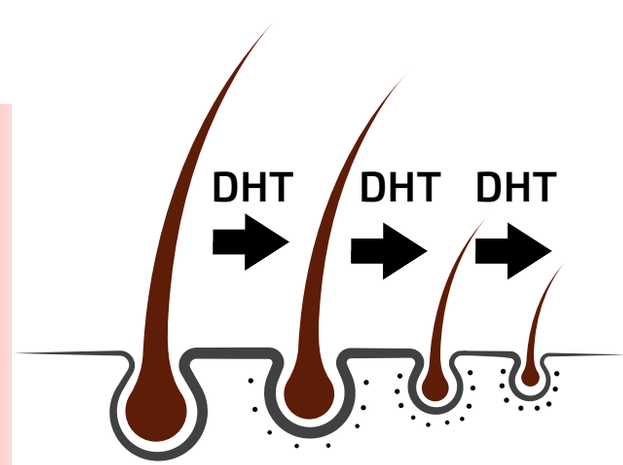
ANDROGENETIC ALOPECIA

The main cause of hair loss is a genetically determined hormonal disbalance.

The dihydrotestosterone (DHT) hormone plays a crucial role. Biologically highly active DHT is formed in the body of men and women with the help of an enzyme (5-alpha reductase) from testosterone. Hair roots are extremely sensitive to DHT.

Dihydrotestosterone shortens the hair growth phase. Hair falls out faster, becomes thinner and disappears.

- This issue affects more
  - 70% of men
  - 40% women
- Androgenetic alopecia is the reason of 95% of all causes of hair loss!



Reason 2

PREMATURE HAIR LOSS

Research shows that one in five teenagers around the age of 20 suffers from premature hair loss. Boys tend to be more affected than girls, but girls are also on the rise. This phenomenon is often influenced by psychological factors such as anxiety, stress, insomnia, trauma, and emotional stress.

However, in most cases, the main cause is genetic androgenetic alopecia.

A common feature is excessive sebum production and thinning hair. The hair becomes thinner and then falls out without further growth.

Reason 3

HAIR LOSS AFTER PREGNANCY AND IN MENOPAUSE

During pregnancy, many women enjoy shiny and unusually thick hair. Unfortunately, when a baby is born, the opposite often happens. Suddenly, the hair becomes dull or even falls out.

This type of hair loss after childbirth is called diffuse alopecia and in most cases is due to hormonal changes. After pregnancy, there is **a drop in the level of estrogen, female hormones,** and the hair increasingly enters the resting phase, and then often falls out.

Diffuse alopecia is usually a physiological and temporary process lasting about three months. After this time, the hair begins to grow again and becomes thick again. On the other hand, **if hair loss does not stop, then suitable treatment cannot hurt.**

Hair loss during menopause is associated with a drop in estrogen levels. Estrogens have an antiandrogenic function, they have an opposite function to the hormones responsible for androgenetic alopecia.

Also, during menopause, there is often an increase in stress and a lack of mineral salts and amino acids.

SOLUTION

CAPIXAN 5%, LOTION 50 ml

EFFECT:

- Stimulation of new hair growth
- Stop hair loss
- Restoration of lost hair
- Strengthening hair and increasing their volume
- Restoring the nutrition of the hair follicle

ACTIVE INGREDIENTS

- Capyxil ®, 5% (Acetyl tetrapeptide-3 + Biochanin A)
- Caffeine
- Hyaluronic acid
- Nettle extract

- Tea tree oil
- Bamboo extract
- Goji berry extract
- Vitamin E

APPLICATION

- With increased hair loss, use daily 1 time per day.
- Then 3 times a week.

Apply Capixan Lotion to dry scalp or after washing and gently massage into scalp.

CAPIXYL ™

Capixyl ™ is a combination of two ingredients:

- Biochanin A
- Acetyl tetrapeptide-3

Capixan Lotion contains the active ingredient Capixyl™.

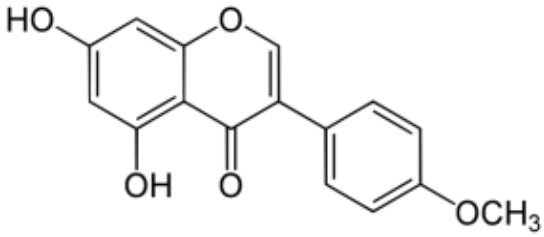
Clinical studies have shown that Capixyl™ is the best protection against dihydrotestosterone (DHT) and inhibits 5-alpha reductase, the main cause of hair loss.

Key results such as increased hair growth, reduced hair loss and stronger hair are visible after just a few weeks with regular use.

Biochanin A
Active ingredient derived from red clover. It is an effective inhibitor of 5-α-reductase (types I and II), thus modulating the conversion of testosterone to DHT in androgenetic alopecia.

Acetyl tetrapeptide-3

The peptide contains 4 amino acids and stimulates tissue remodeling. Acetyl tetrapeptide-3 has a direct effect on the hair follicle, increases its size, helps to better fix the hair and enhances its vitality.



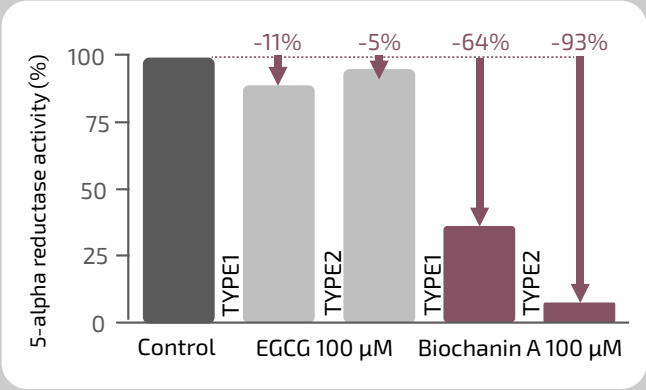
CLINICAL STUDY
Effect of Biochanin A on 5-alpha reductase

Objective

To study the ability of Biochanin A to inhibit 5-α-reductase activity compared to the well-known inhibitor of 5-α-reductase EGCG (epigallocatechin gallate.

Protocol

- *Assays are based on the measurement of the DHT production from testosterone in presence of either type 1 or 2 human 5α-reductase.*
- *Testosterone was labeled with a radioactive isotope and quantified using TLC (thin layer chromatography) and scanning.*



RESULT

Biochanin A inhibits 5-alpha reductase activity up to 93%.

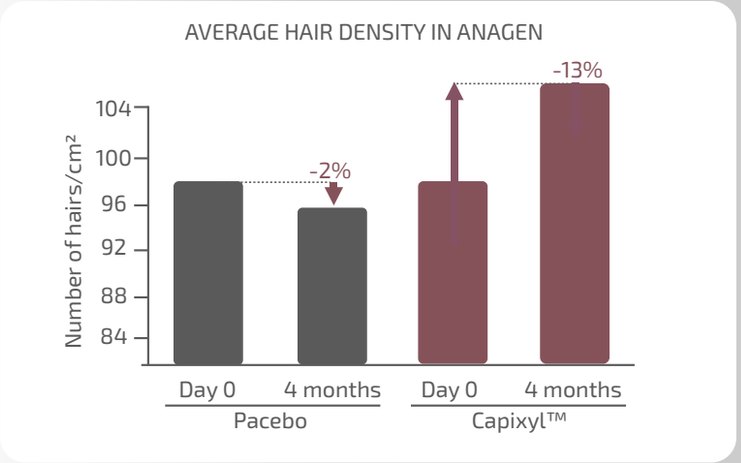
CLINICAL STUDY
Capixyl™ effect on the hair growth cycle (anagen/telogen)

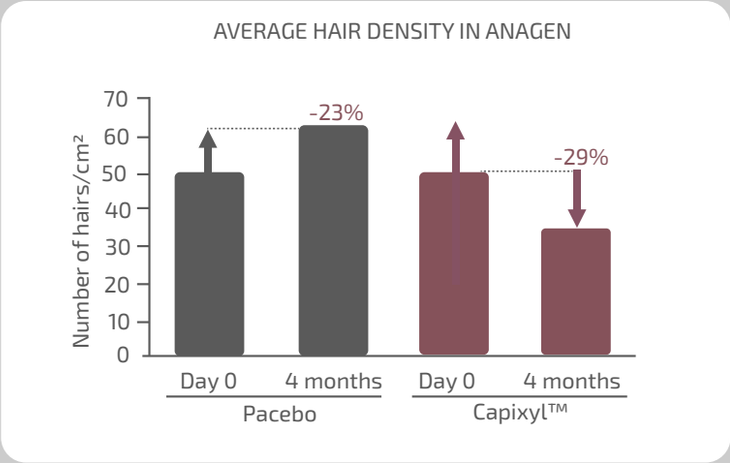
Protocol

- *30 volunteers with androgenetic alopecia. Patients must have 200 hairs or less in the treated area and less than 70% in the anagen phase.*
- *15 treated with Capixyl™ Lotion (5%) and 15 treated with a placebo formulation consisting of 75% water and 20% alcohol.*
- *Apply once daily at night 20 drops of Capixyl™ Lotion or placebo for 4 months.*
- *Digital trichogram (TrichoScan professional) was done on day 0 and at 4 months.*

Evaluation

- *Quantification of the amount and growth of hair in the anagen and telogen phases*
- *Quantification of the variation of number of hairs after 4 months*





RESULT

- ***Capixyl™ induces a clear increase in the anagen hair density - HAIR GROWTH***
- ***Capixyl™ induces a strong reduction in the telogen hair density - STOPS HAIR LOSS***
- ***More than 70% of patients noted an improvement in their condition***

CLINICAL STUDY
Effect of Capixyl™ on inflammation.
(Inflammation is a contributing factor to alopecia).

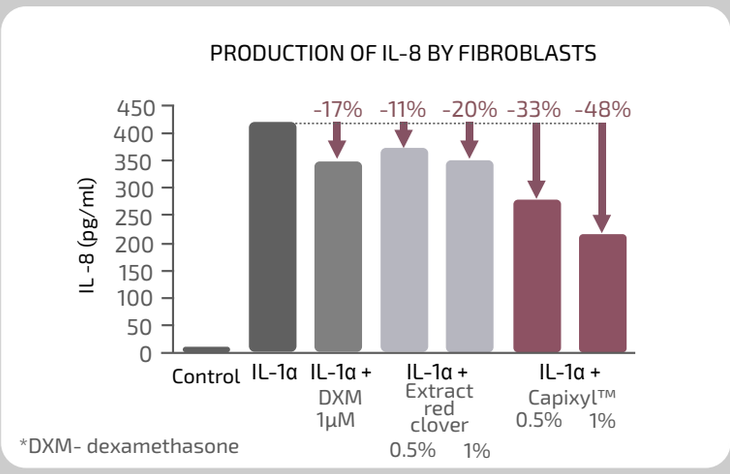
Purpose

to determine the quantitative reduction in the production of IL-8, (a pro-inflammatory cytokine),

Protocol

Inflammation was induced in human fibroblasts with IL-1b (physiological mediator). Fibroblasts were incubated with or without Capixyl™ or dexamethasone (positive control) for 24 hours.

Quantification of IL-8 using an immuno-enzyme kit



RESULT
CAPIXYL™ reduces pro-inflammatory cytokines by -48%.
It acts more effectively than dexamethasone.

CLINICAL STUDY
Influence of Acetyl tetrapeptide-3 on anchor proteins
(synthesis of collagen III, VII types and Laminin).

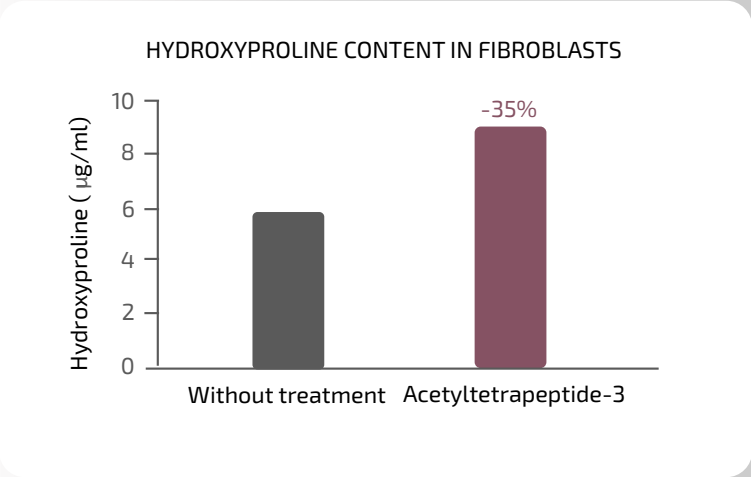
Objective

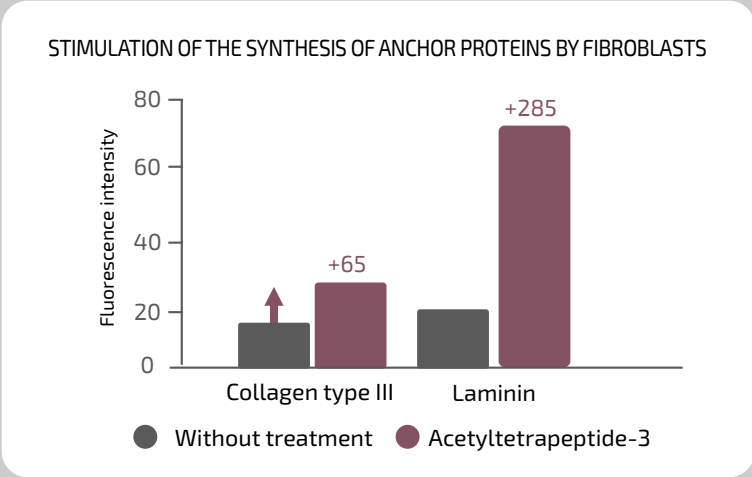
To quantify total collagen synthesis induced by acetyltetrapeptide-3 on fibroblasts.

Protocol

Human fibroblasts treated for 7 days with acetyltetrapeptide-3 at a concentration of 10^{-7}M

(≈ 0.016% Capixyl™ solution).





RESULT

Acetyl tetrapeptide-3 significantly stimulates the production of collagen (+65%) and laminin (+265%), which improves the extracellular matrix and improves the fixation of hair follicles.

CLINICAL STUDY

Comparative study with Minoxidil

Minoxidil (Regain®/Rogain®) is one of the most popular drugs known for its ability to slow down or stop hair loss and stimulate hair growth. Minoxidil is effective in about 50% of cases. Side effects: burning/irritation, redness of the treated area, chest pain.

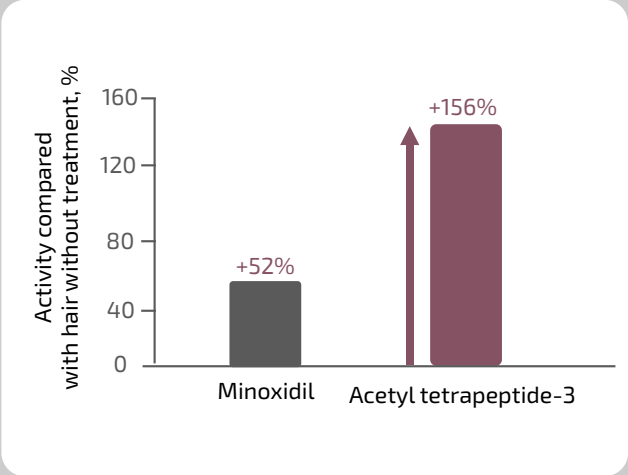
Objective

To measure the rate of human hair growth in culture with Acetyl tetrapeptide-3 versus Minoxidil.

Protocol

Hair follicles are harvested from the scalp in the anagen phase. Hair follicles are cultured with Acetyl tetrapeptide-3 at 10^{-7}M (0.016% Capixyl™ solution) or Minoxidil at 120×10^{-7}M for 7 days.

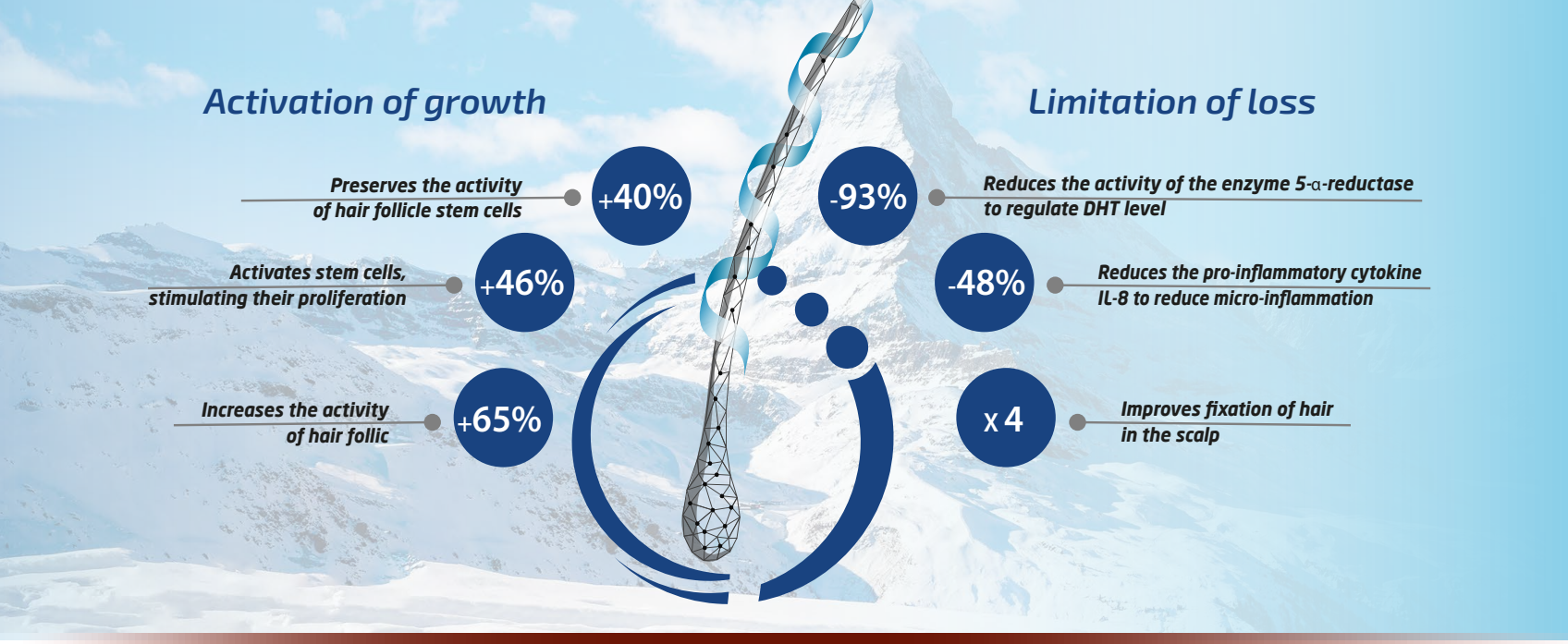
Evaluation of hair growth after treatment using a micrometer and an optical microscope.



RESULT

Acetyl tetrapeptide-3 stimulates hair growth 3 times more actively than Minoxidil.

CAPIXYL™ IMPROVES ALL MECHANISMS OF HAIR GROWTH



CAPIXAN 1%, SHAMPOO 200 ml.

EFFECT:

- Prevention of hair loss
- Strengthening hair and increasing their volume
- Restoring the nutrition of the hair follicle
- Care of skin of the scalp

Active Ingredients:

- *Capyxil ®, 1% (Acetyl tetrapeptide-3 + Biochanin A)*
- *Caffeine*
- *Nettle extract*
- *Wheat proteins*
- *Almond proteins*
- *Tea tree oil*
- *Goji berry extract*
- *Bamboo extract*
- *Panthenol*
- *Vitamin E*

APPLICATION

- Apply Capixan Shampoo on wet hair and lightly massage.
- Leave on for at least 2 minutes and then rinse with warm water.
- If necessary, repeat the procedure.

Nettle extract

Nettle is an effective remedy for improving hair health. Its unique composition includes a large amount of formic, folic, acetic acid, valuable essential oils, natural chlorophyll. Nettle also contains vitamins C, B2, beta-carotene, calcium, magnesium and iron. Nettle perfectly strengthens the hair roots, protects them from falling out, eliminates the increased oiliness of the scalp, itching and dandruff, restores the hair structure and stimulates their growth.

Wheat proteins

Improve hair structure, stop brittleness, give them a healthy shine. The protein penetrates deep into the hair structure, strengthening it from the inside. Wheat proteins also smooth the hair and reduce its electrification. Proteins prevent flaking of the scalp.

Almond proteins

The most powerful moisturizing and nourishing component that saturates the scalp with protein and antioxidant vitamins A, C, E.

Tea tree oil

It has strong antiseptic, antifungal properties and helps fight dandruff. Effective against hair loss. Allows you to normalize the balance of oily scalp.

Goji berry extract

Strengthens hair follicles, improves blood circulation in the scalp, prevents the appearance of gray hair and thin hair. Due to the high content of minerals, the hair becomes more elastic, protected from aggressive environmental influences. Prevents hair loss.

Bamboo extract

Bamboo is one of the richest natural sources of silicic acid. Silicon is essential for healthy hair. Bamboo leaves contain flavonoids, which have antioxidant properties and neutralize free radicals. The antiseptic properties of bamboo extract help to cleanse the scalp and regulate the skin-fat balance, which, gives lightness and volume to the hair.

CAPIXAN, 30 capsules

ACTION

- Promotes healthy hair growth
- Strengthening hair and increasing their volume
- Restoring the nutrition of the hair follicle with vitamins, minerals and amino acids

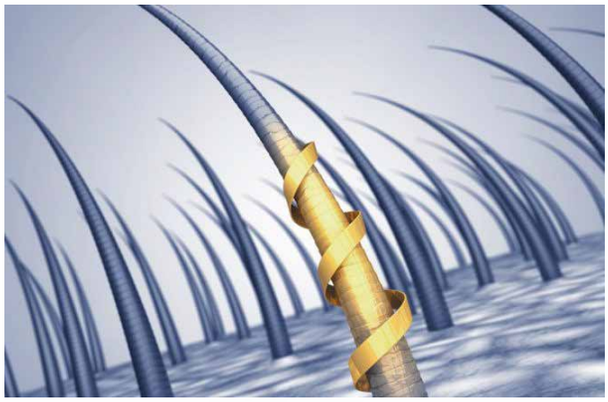
1 capsule contains:

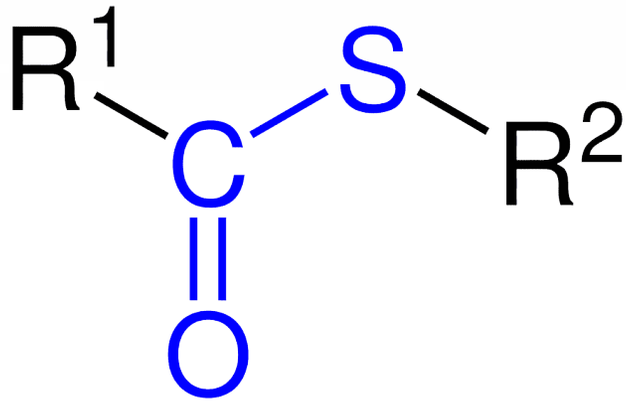
- *Keratin 200 mg*
- *MSM (methylsulfanylmethane) 100 mg*
- *Cysteine 50 mg*
- *Methionine 25 mg*
- *Silica 35 mg*
- *Vitamin B5 10 mg*
- *Biotin 150 mcg*
- *Zinc 5 mg*
- *Copper 1 mg*
- *Horsetail extract 75 mg*
- *Millet seed extract 20 mg*

USAGE: 1 CAPSULE PER DAY

Keratin

Keratin is a fibrillar protein with mechanical strength, which among materials of biological origin is second only to chitin. Keratin is the main element of all horny derivatives of the epidermis of the skin, such as hair and nails.





MSM (methylsulfonylmethane)

MSM is one of the richest natural sources of organic sulfur with high bioavailability. Sulfur is often called the "element of beauty": its sufficient intake helps to maintain healthy skin and nails, hair shine. MSM also promotes the production of its own collagen.

Cysteine and Methionine

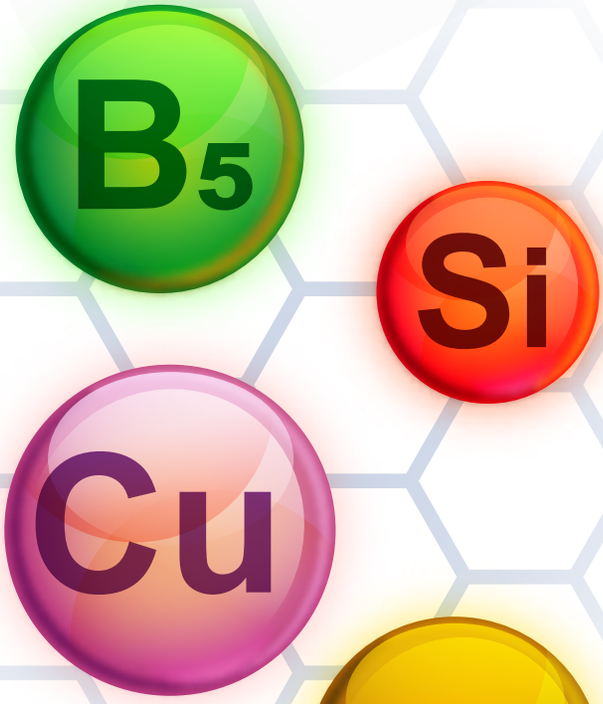
These are amino acids that help the formation of keratin in the hair structure. Promote hair growth and give them shine.

Horsetail and millet seeds extracts

The extracts of these plants are rich in organic silicon, which is actively involved in the synthesis of collagen and elastin. They are also excellent remedies for strengthening hair roots.

Vitamin B5

Vitamin B5 (pantothenic acid) stimulates active hair growth, repairs damaged hair and prevents split ends. In addition, it intensively nourishes the hair, protecting the hair cuticle from destruction, brittleness and color loss.



Silica

Silicon is a vital trace element necessary for the good condition of the skin and its appendages (hair, sweat and sebaceous glands, nails). Silicon also stimulates and regulates mitosis (division) of fibroblasts.

Biotin

Helps stimulate the production of the hair's own collagen. And collagen, is responsible for the growth and shine of hair. Biotin helps prevent split ends. It is also effective as a hair loss prevention.

Zinc and Copper

Minerals (zinc and copper) help cell regeneration and help maintain the normal condition of hair, nails and skin.

APPLICATION OF THE CAPIXAN COMPLEX

INTENSIVE USE

- **Capixan, 5% lotion.**
  For severe hair loss, use the lotion daily. Apply to dry scalp or after washing hair and massage gently.
- **Capixan, 1% shampoo.**
  Wash your hair with shampoo at least 3 times a week.
- **Capixan capsules.**
  Take 1 Capixan capsule daily with a small amount of liquid.

The duration of treatment is 2-4 weeks.

MAINTAINING USE

- **Capixan, 5% lotion.**
  To maintain the result, apply the lotion 3 times a week. Apply to dry scalp or after washing hair and massage gently.
- **Capixan, 1% shampoo.**
  Wash your hair with shampoo at least 3 times a week.
- **Capixan capsules.**
  Take 1 Capixan capsule daily with a small amount of liquid.

The duration of treatment is 2-3 months.

PREVENTIVE USE

- **Capixan, 5% lotion.**
  For prevention, use the lotion 1-2 times a week. Apply to dry scalp or after washing hair and massage gently.
- **Capixan, 1% shampoo.**
  Wash your hair with shampoo 2 times a week.
- **Capixan capsules.**
  Take 1 Capixan capsule daily with a small amount of liquid.

CAPIXAN: EFFECTIVE AND STRONG RESULT

- *Completely based on natural active ingredients*
- *Clinically proven effect*
- *Thoroughly tested by dermatologists*
- *No side effects*
- *More than 90% of satisfied customers*

Made in Switzerland

Global Swiss
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