

PEPTIDE LOTION + SHAMPOO

Hair Revitalizer

Hair loss, hair thinning, weak hair, for men or women



Version
DERMA

Pharmaceutical Products Dermatologically Tested Parabens Free

— PEPTIDE LOTION

Scientific formula. Its effectiveness is due to the action of its active ingredients, which has been proven by several clinical studies.

It inhibits hair loss and enhances hair growth.

It nourishes the scalp and the hair roots.

— Active ingredients

A combination of 3 latest technology patented oligopeptides, entrapped in liposomes: Oligopeptide-54, (CG-Nokkin), Decapeptide-18 (CG-WINT), Decapeptide-10 (CG-Keramin2)

Plant extracts: Serenoa Serrulata, Polygala Tenuifolia, Portulaca Oleracea, Thuja Orientalis, Ginkgo Biloba

Vitamins: Biotin, Retinyl Palmitate

— Transfer system for enhanced penetration and action

Innovative technology for the penetration of active ingredients into the scalp. Liposomes are globular vesicles consisting of phospholipid bilayers. Similarly to cell membranes, they protect the entrapped substances from chemical or enzymatic effects. They form a transfer system that enhances penetration, as they transfer the oligopeptides to the capillary bulbs.

— Peptide Lotion Benefits

Suitable for men and women of all ages

Male & female alopecia

Hair thinning in men and women

Severe hair loss in men and women

Clinically tested active ingredients (three peptide complex).

— Clinical evidence of in-vivo and in-vitro trials

PEPTIDE owes its success to its 10 active ingredients.

LIPOSOME-ENTRAPPED BIOMIMETIC OLIGOPEPTIDES

Oligopeptide 54 (CG-Nokkin): It promotes new hair growth and inhibits hair depigmentation. It strengthens the hair, while stimulating scalp blood micro-circulation. As a result, it revitalizes hair follicles. It inhibits hair loss by intervening in 3 mechanisms: BMP4, DKK-1, WNT.

Decapeptide-10 (CG-Keramin2): It enhances bulb matrix cell proliferation, resulting in hair follicles and shafts strengthening. It prevents hair cell damage caused by stress, UV exposure and other adverse environmental factors. It nourishes the scalp and the hair roots, ensuring healthier and stronger hair shafts.

Decapeptide-18 (CG-WINT): It stimulates hair placode formation by activating hair follicles and promoting epithelial stem cell differentiation. It activates the β -catenin mechanism, which plays an important role in differentiating the epithelial hair follicle stem cells into stratum corneum cells.

VITAMINS

Retinyl Palmitate (Vitamin A): It nourishes the hair cortex and has strong antioxidant action on the hair and scalp. It helps hair regain its elasticity.

Biotin: It increases scalp blood micro-circulation and enhances hair and scalp health.

PLANT EXTRACTS

Serenoa Serrulata Fruit Extract: It blocks the action of DHT, which causes hair loss.

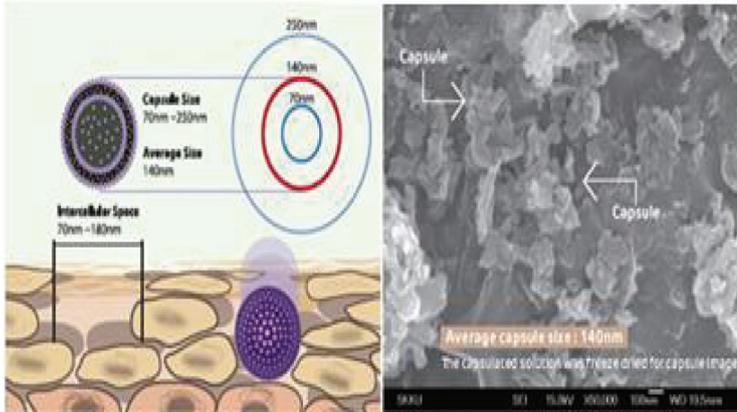
Polygala Tenuifolia Root Extract: It prevents hair loss and promotes new hair growth.

Portulaca Oleracea Extract: It keeps the scalp clean and healthy and protects it from adverse environmental factors.

Thuja Orientalis Extract: It limits hair loss and strengthens hair follicles, offering strong and healthy hair.

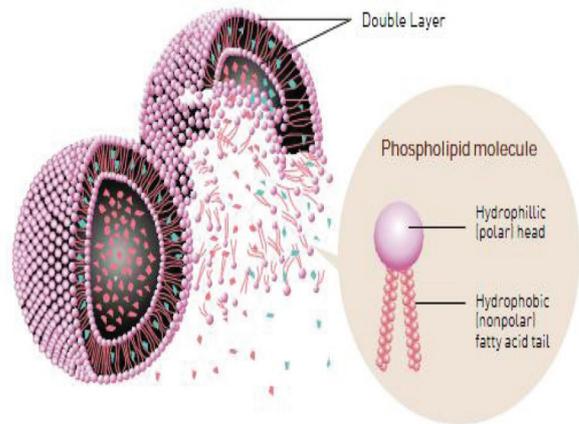
Ginkgo Biloba Leaf Extract: It cleanses and soothes the scalp, while improving scalp blood micro-circulation.

PEPTIDE LOTION Hair revitalizer



Scanning Electron Microscopic image X 50,000

Benefits of VERSION PEPTIDE LOTION Hair Revitalizer
The liposome-entrapped biomimetic peptides inhibit hair loss and enhance new hair growth.



Benefits of Caregen liposomes technology
Being entrapped in liposomes, the biopeptides ensure enhanced absorption and total effectiveness.

VERSION PEPTIDE LOTION 50 ml e

Hair Revitalizer

Dermatologically Tested - Parabens Free

A scientific formula for hair care. According to several clinical studies, its effectiveness is due to the action of 10 active ingredients.

- It inhibits hair loss and promotes hair growth.
- It nourishes the scalp and the hair roots.

Manufactured by Caregen Co., Ltd. Packaged in Greece – Distributor VERSION S.A.



VERSION PEPTIDE SHAMPOO 200 ml e

Hair Revitalizer

Dermatologically Tested - Parabens Free

A clinically tested formula for healthy hair.

It has been specially designed to be used in combination with PEPTIDE LOTION Hair Revitalizer. It revitalizes the hair and scalp, providing the ideal environment for hair restoration.

Apart from the active ingredients found in VERSION Peptide Lotion-Hair Revitalizer, it also contains hydrolyzed silk and keratin proteins.

Its composition includes gentle surfactants and protective factors for the hair and scalp.



EVERYDAY TREATMENT WITH PEPTIDE LOTION

- Male and female alopecia
- Male and female hair thinning
- Severe male and female hair loss

TREATMENT DURATION: Use daily for three months.

Apply 2 times per day, day and night.

MAINTENANCE TREATMENT: Apply 3 times per week, day and night, for three months.

NOTE: Continuous treatment is required to achieve the desired level of effectiveness.

PEPTIDE LOTION - USE

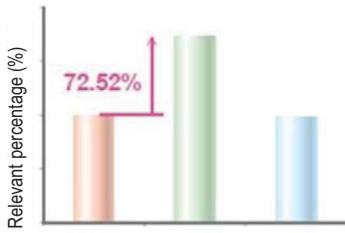
- May be applied locally or on the whole surface of the scalp on dry hair.
- Shake gently before use. Spray directly on the affected area and massage gently using your fingers.
- No need to rinse. Otherwise, let the product act for at least 3 hours before rinsing.

Application: Apply 2 times daily, day and night

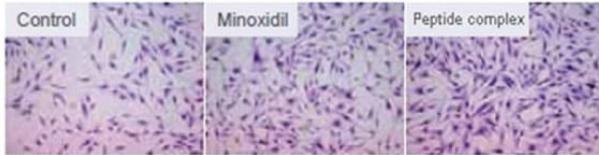
PEPTIDE LOTION IS EFFECTIVE IN MEN AND WOMEN IN CASES OF NON-SCARRING ALOPECIA

NON-SCARRING ALOPECIA: Telogen effluvium, anagen effluvium, alopecia aerata, androgenic alopecia, hair shaft abnormalities, hair loss due to endocrine disorders, nutrition disorders, medication.

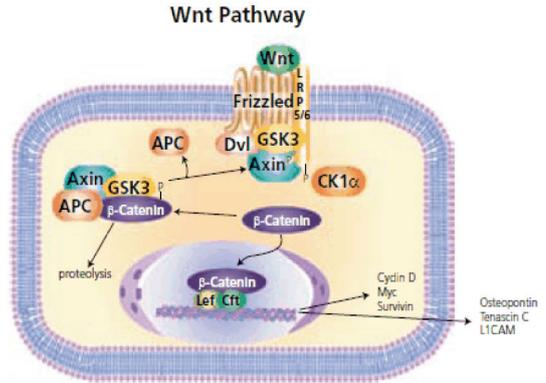
SCARRING ALOPECIA: Developmental defects, infections, injuries, neoplastic disorders, lichen planus, keratosis pilaris atrophicans, folliculitis decalvans, dissecting cellulitis, acne keloidalis, pseudopelade, alopecia mucinosa.



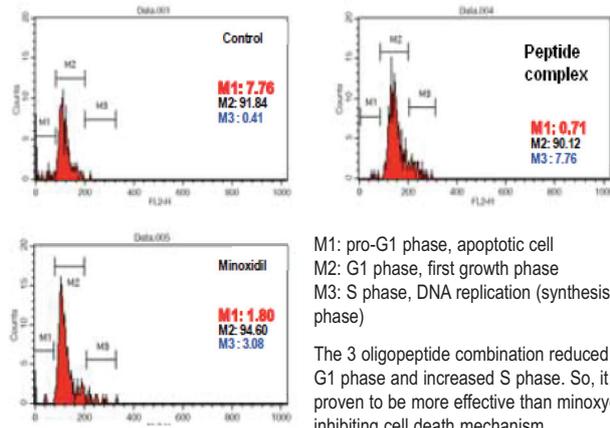
Cell line: Mesenchymal stem cells (P.5)
Culture seeding: 1X104 cells/24 well plate
Concentration: 10µg/ml minoxidil
Culture condition: 2% serum, 72 hours



Compared to Minoxidil, VERSION PEPTIDE increases MSC proliferation due to its oligopeptide combination (SRB assay).

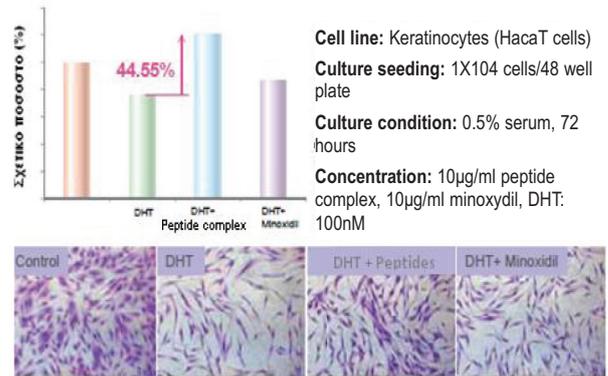


Mechanism of Oligopeptide 54: Inhibits DKK-1 expression which leads to WNT mechanism activation.



M1: pro-G1 phase, apoptotic cell
 M2: G1 phase, first growth phase
 M3: S phase, DNA replication (synthesis phase)
 The 3 oligopeptide combination reduced pro-G1 phase and increased S phase. So, it is proven to be more effective than minoxidil in inhibiting cell death mechanism.

Biopeptide combination. VERSION PEPTIDE vs Minoxidil: Cell apoptosis inhibition



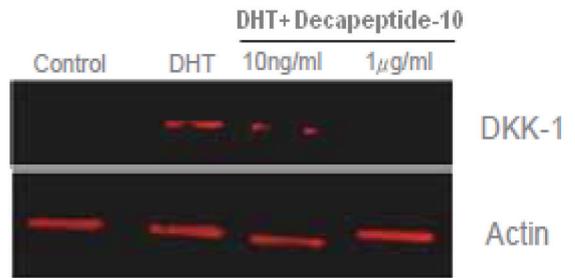
Cell line: Keratinocytes (HacaT cells)
Culture seeding: 1X104 cells/48 well plate
Culture condition: 0.5% serum, 72 hours
Concentration: 10µg/ml peptide complex, 10µg/ml minoxydil, DHT: 100nM



Biopeptide combination. VERSION PEPTIDE vs Minoxidil: Cell apoptosis inhibition with DHT



Human hair follicle culture



DKK-1 expression in primary hair cells.
 DHT (Dihydrotestosterone): DKK-1 stimulator – 1.5 µM
 DKK-1: Key molecule for male alopecia
 Inhibits DKK-1 expression which leads to WNT mechanism activation.



A.Day 1st A.Day 85th



B.Day 1st B.Day 85th

Subject no.3 Male Aged 73	A	B
	After 85 Days	After 85 Days
	%	%
Number of Hairs	12.8	-25
Hair density (1/cm ²)	12.8	-25
Hair thickness (1/cm ²)	6.3	3.8
Hair growth rate	19	-12.5
Rate of Anagen	6.3	3.8
Rate of Telogen	-27	-17



A.Day 1st A.Day 85th



B.Day 1st B.Day 85th

Subject no.4 Male Aged 45	A	B
	After 85 Days	After 85 Days
	%	%
Number of Hairs	1.5	-3.6
Hair density (1/cm ²)	1.5	-3.6
Hair thickness (1/cm ²)	6.9	-3.8
Hair growth rate	-23.0	-27.0
Rate of Anagen	0.5	-8.1
Rate of Telogen	-19.0	96.5



A.Day 1st A.Day 85th



B.Day 1st B.Day 85th

Subject no.3 Male Aged 73	A	B
	After 85 Days	After 85 Days
	%	%
Number of Hairs	12.8	-25
Hair density (1/cm ²)	12.8	-25
Hair thickness (1/cm ²)	6.3	3.8
Hair growth rate	19	-12.5
Rate of Anagen	6.3	3.8
Rate of Telogen	-27	-17



A.Day 1st A.Day 85th



B.Day 1st B.Day 85th

Subject no.4 Male Aged 45	A	B
	After 85 Days	After 85 Days
	%	%
Number of Hairs	1.5	-3.6
Hair density (1/cm ²)	1.5	-3.6
Hair thickness (1/cm ²)	6.9	-3.8
Hair growth rate	-23.0	-27.0
Rate of Anagen	0.5	-8.1
Rate of Telogen	-19.0	96.5

Volunteer study data (BEFORE & AFTER)

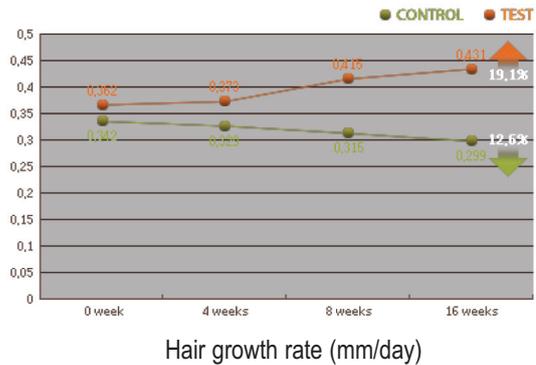
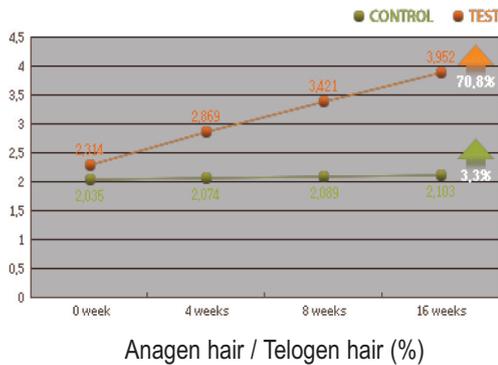
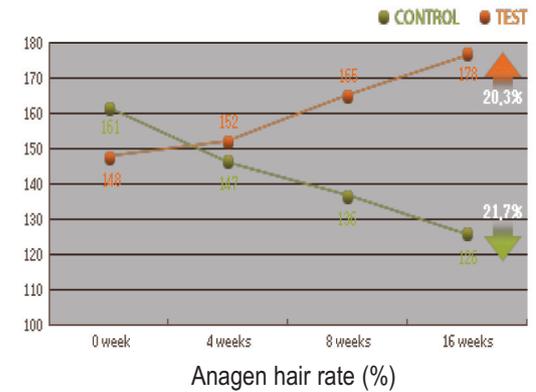
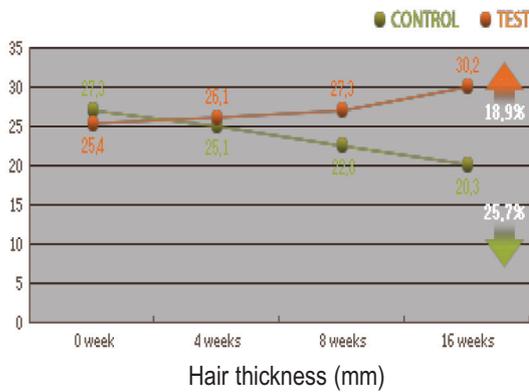
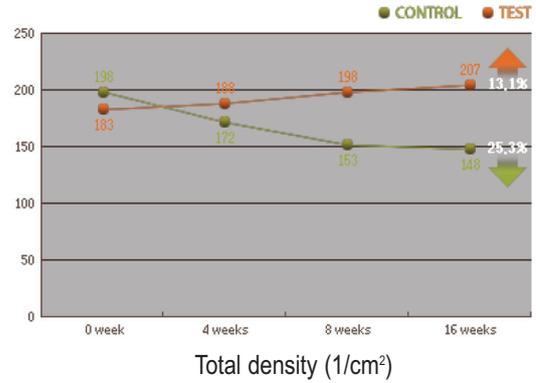
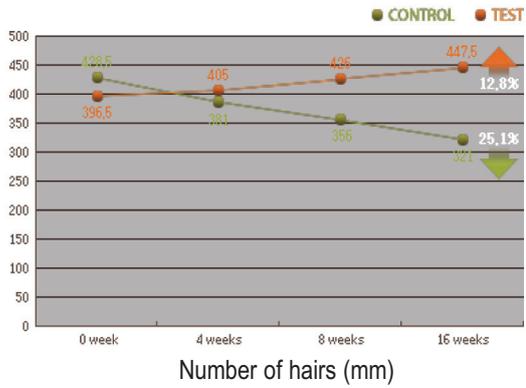
A: PEPTIDE LOTION peptide complex **B: Placebo**

Study design: Randomized, double blind, placebo controlled, 85 day duration, intra-individual comparison.

Participation criteria: Male alopecia, 45-73 years old, score 3-4 in Norwood-Hamilton scale.

Application: Apply twice per day, day and night. Phototrichogram data.

In the following clinical studies, hair thickness in the control group decreased over time. On the contrary, the control group treated with PETIDE demonstrated an increase in hair density and number of hairs over time. Both hair growth rate and hair thickness have increased. Hair loss was inhibited, while hair growth was enhanced by an increase in anagen phase.



References:

- Prager N, Bickett K, French N, Marcovici G, A randomized, double-blind, placebo-controlled trial to determine the effectiveness of botanically derived inhibitors of 5-alpha-reductase in the treatment of androgenetic alopecia. *J Altern Complement Med.* 2002 Apr;8(2):143-52.
- Huelsken J, Vogel R, Erdmann B, Cotsarelis G, Birchmeier W. beta-Catenin controls hair follicle morphogenesis and stem cell differentiation in the skin. *Cell.* 2001 May 18;105(4):533-45.
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- McElwee K, Sinclair R. Hair physiology and its disorders. *Drug Discovery Today: Disease Mechanisms, Common skin conditions and disorders.* Volume 5, Issue 2, Summer 2008, Pages e163-e171
- Vichai V, Kiritkara K. Sulforhodamine B colorimetric assay for cytotoxicity screening. *Nature Protocols* 1, - 1112 - 1116 (2006) Subject Categories: Cell and tissue culture | Pharmacology and toxicology
- Papakostas D, Rancan F, Sterry W, Blume-Peytavi U, Vogt A, Nanoparticles in dermatology. *Arch Dermatol Res.* 2011 Oct;303(8):533-50. doi: 10.1007/s00403-011-1163-7. Epub 2011 Aug 12.



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