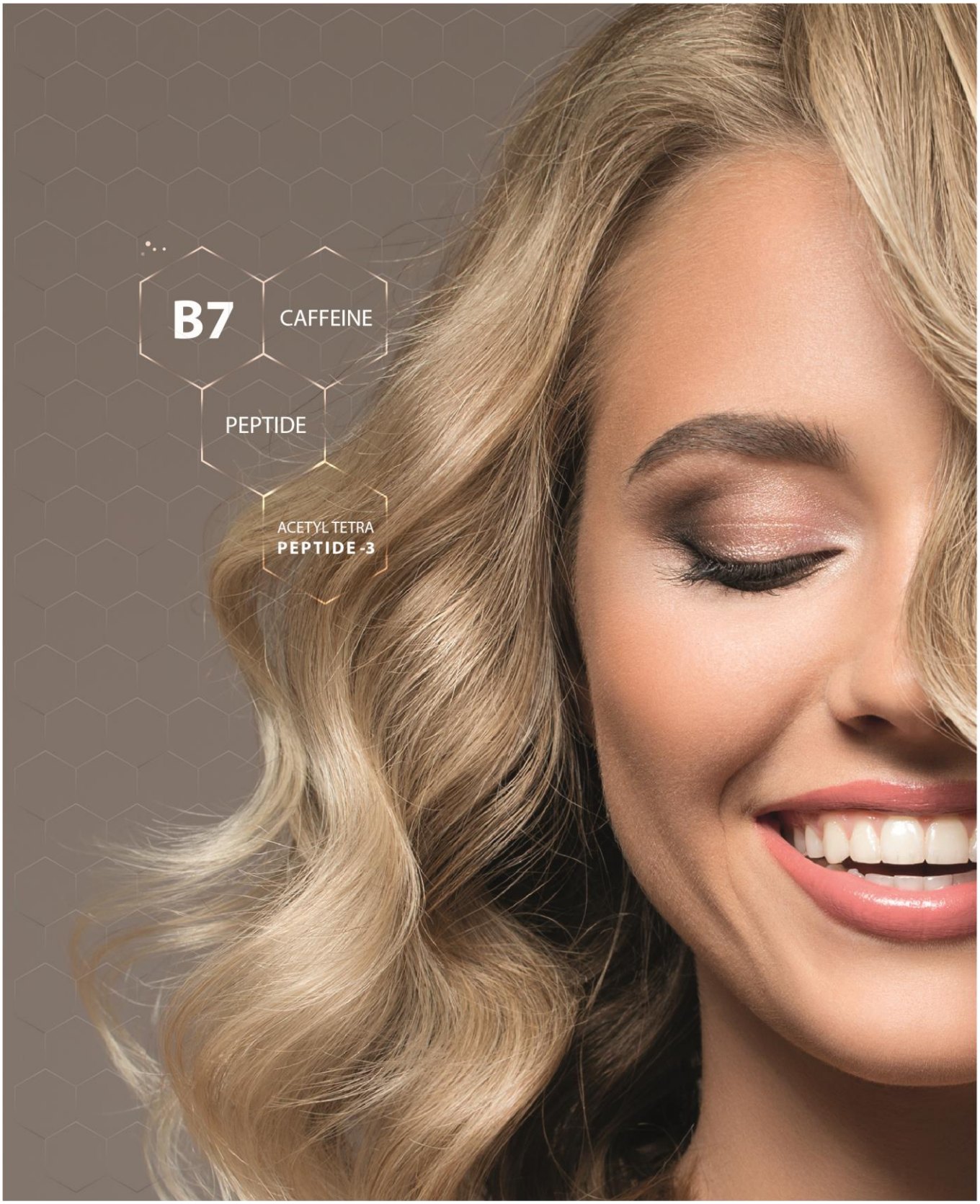


Novo Nano Hair Growth® a new generation of Nano-actives for hair growth and beauty.

Table of Content:

- Introduction of topical therapy with nanoparticles
- Actives and mechanism of Nano Hair Growth Complex
- The process of formulation and dosage
- Efficacy assessment and clinical test
- Usage and benefits

DNA

NOVO NANO HAIR GROWTH®

INCI Name: Water, peptide, biotin, caffeine, acetyl tetrapeptide-3

Introduction:

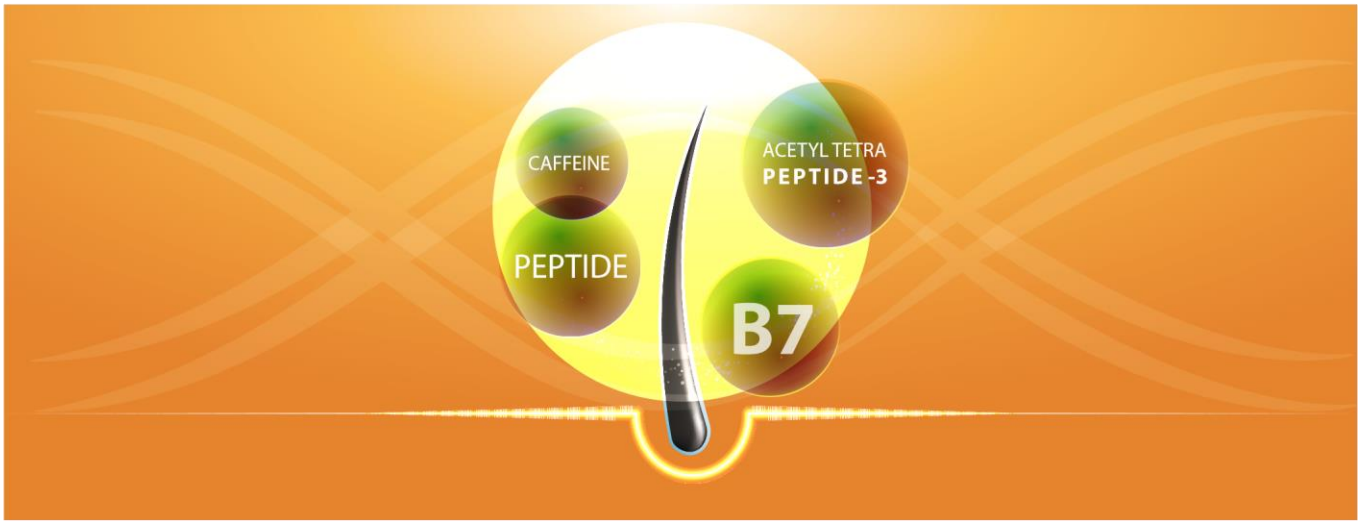
Topical Therapy is one of the effective treatments for hair loss problems. But, most of the time, the large size of molecules makes it difficult to reach out the targeted results.
As systemic absorption is not intended in cosmetics, Novo Nano Hair Growth designed as an innovative nano-actives with special optimized size (100> nano-sized>500 nm) to target hair follicles to penetrate.

Novo Nano Hair Growth is an innovative active that efficiently can penetrate to the follicular canal. It reduces the loss of hair and provokes regrowth of hair and eyelashes, penetrating deep and fast.

Technical Data Sheet (TDS)	
Appearance	liquid
Solubility	Soluble in water
Density 20 °C	0.995-1.25g/ml
Dry residue	8-9.5%
Refractive index	1.355-1.360

Active & mechanism:

In order to increase the efficacy of hair growth actives, we should increase penetration. Although most studies have focused on the lesser size of the particles, Novo Nano hair growth has been developed with an optimized nano-size to specially target the hair follicles without systemic absorption.



How to use:

- Cold or hot process
- at any steps

Dosage: 15-50% Efficacy tests:

Group1:

- 16 volunteers (men & women,)
- Age: 30-55
- Tonic with non-liposomal complex
- Usage: once at night for 90 days.

Group2:

- 16 volunteers (men & women)
- Age 30-55
- Tonic with liposomal complex• Usage: once at night for 90 days.

Applications:

- Cream
- Serum
- Toner
- Shampoo
- Conditioner/mask

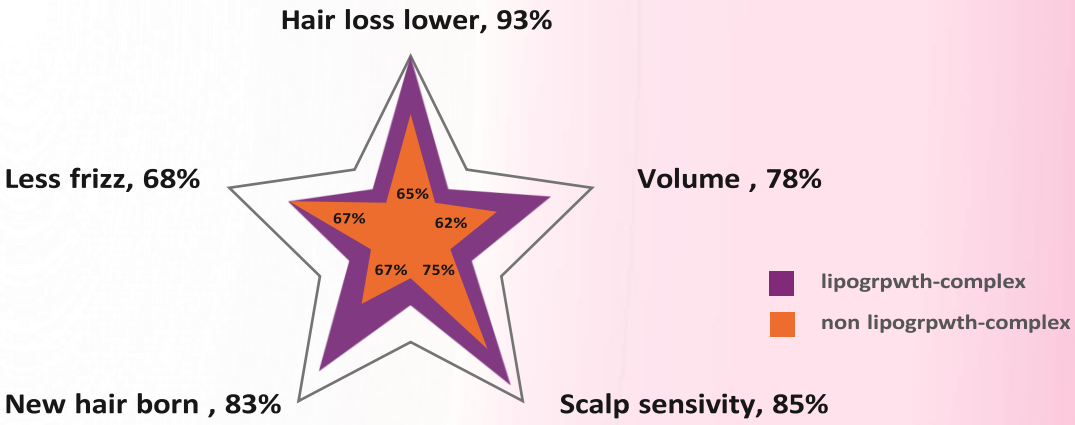
Typical formulation for serum	
Novo Nano hair growth	25-50
Water	qs
Xanthan	0.3-0.5
Glycerin	3-5
Preservative	qs
Novosorb ws	0.3-0.5
Fragrance	qs

Benefits:

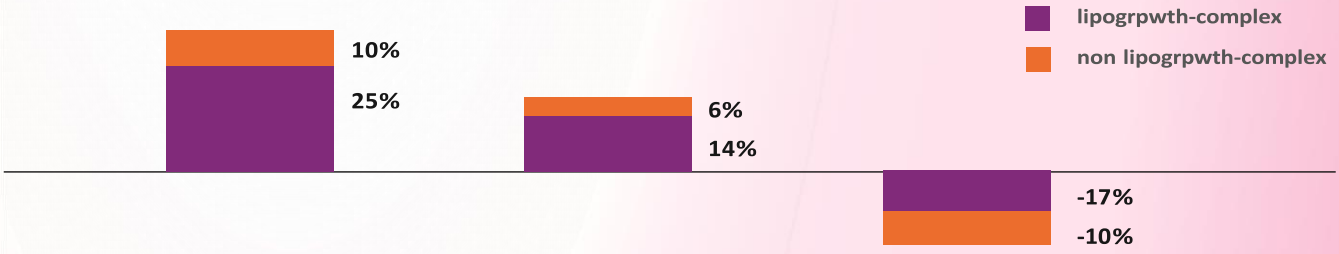
- Higher stability against coalescence
- Lack of toxicity or irritant characteristics
- Low viscosity
- Versatility of formulation as foams, creams, liquids, and...

Subjective evaluation

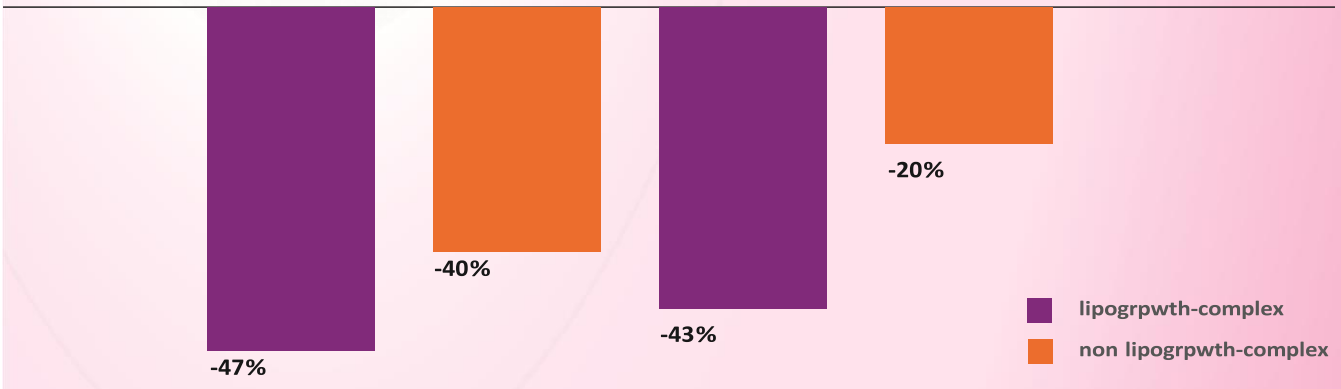
90 days, satisfied volunteers



Anagen phase improvement vs Telogen phase (90days, %)



Combing and washing hair loss (90 days, %)



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