TrichoOil™

100% natural vehicle designed to solubilize liposoluble APIs

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TrichoOil™

The human scalp is composed of multiple layers that serve as a protective barrier, both physical and microbiological. The first layer, the skin, contains the hair follicles and sebaceous glands, responsible for the production of the natural oil that covers the hair and scalp, being a lipid layer that helps to lubricate the area.

TrichoOil™ is a 100% natural lipid vehicle that solubilizes liposoluble active ingredients and brings them to the bulb, scalp and shaft (BSS) hair system through the lipid layer. **TrichoOil™** contains essential fatty acids that promote restoration and hydration of the scalp and shaft. **TrichoOil™** can be applied on dry hair before washing.

1. Seals and strengthens **the cuticle**
2. Replaces fatty acids **in the hair fiber**
3. Restores and hydrates **the scalp**
4. Ideal for the application **of oil vitamins**

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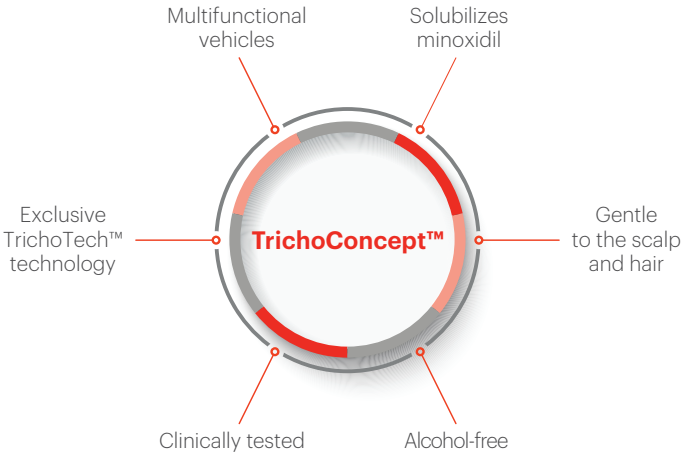

TrichoConcept™

TrichoOil™ is part of the **TrichoConcept™**, the first global line of multifunctional compounding vehicles with the **TrichoTech™** technology, a Fagron patented phytocomplex specially developed for use in personalized alopecia treatment, with selected ingredients that act synergistically to provide multiple benefits to the bulb, scalp and shaft (BSS) hair system.[1]

The Science Behind TrichoTech™

The efficacy of the **TrichoConcept™** line of vehicles and **TrichoTech™** have been validated in both *in vitro* and *in vivo* studies, showing:[2,3]

1. Increase in fibroblasts proliferation
2. Increase in collagen content inside fibroblasts
3. Increase in the expression of fibroblasts growth factors (FGF-7, FGF-10)
4. Stimulation of the anagen phase on hair

TrichoConcept™ vehicles were developed to be compatible with the majority of the APIs and DCIs used in alopecia treatment, allowing their easy incorporation into the vehicles. There are seven different **TrichoConcept™** vehicles available, each one with exclusive characteristics according to the desired site or application.

Patient case study

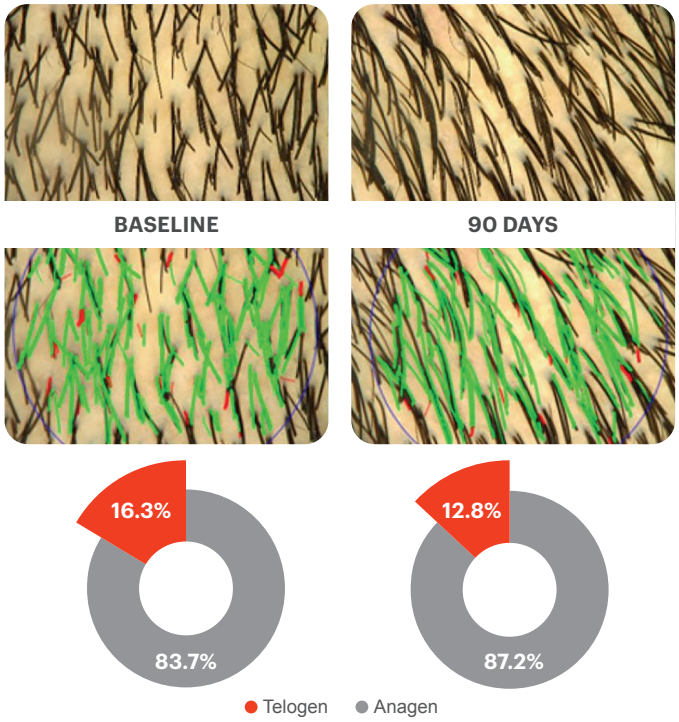

Figure 1. TrichoScan scalp images before treatment (baseline), and after 90 days.

Patient identification: L.F.L.
Gender: Male
Age: 23

Diagnosis
Androgenetic alopecia, seborrheic dermatitis.

Treatment protocol
- TrichoOil™ (once per week)
- TrichoWash™ (daily)
- TrichoCond™ (daily)
- TrichoFoam™ + Minoxidil 3.0% (daily)

Results
After 45 days and 90 days, an increase in anagen hair was observed. The use of minoxidil associated with **TrichoConcept™** protocol showed effectiveness, even when this active ingredient was prescribed in percentage and posology lower than usual (Figure 1).

The Safety of TrichoConcept™

All **TrichoConcept™** vehicles were evaluated in clinical studies to assess the skin's primary and accumulated irritation potential, skin sensitization, photoallergy and phototoxicity potential. After the completion of the studies, all the tested products:

- Do not induce primary and accumulated skin irritation
- Do not cause irritation
- Do not induce skin photoallergy or phototoxicity

TrichoConcept™ is formulated to be biocompatible with the hair and the scalp, without causing dryness or irritation. **TrichoConcept™** is free from allergens and controversial ingredients such as dyes, alcohol, parabens, mineral oils, sodium lauryl sulfate, propylene glycol, phthalates, silicones and petrolatum. **TrichoConcept™** vehicles have no safety concerns associated with any of their components and are cruelty-free, vegan, BSE/TSE-free (Bovine Spongiform Encephalopathy/ Transmissible Spongiform Encephalopathy), and GMO-free.

To maintain the physiology of the BSS hair system and avoid toxicity,
TrichoConcept™ vehicles are free from controversial ingredients that are frequently used in hair products:

References

1. Polonini, H., Taylor, S. & Zander, C. Compatibility of Different Formulations in TrichoConcept™ Vehicles for Hair Treatments. *Sci Pharm* **90**, (2022).
2. Amaral, F. *et al*. Effects of the Phytocomplex TrichoTech™ on Human Fibroblasts: Proliferative Potential and Effects on Gene Expression of FGF-7 and FGF-10. *Journal of Cosmetics, Dermatological Sciences and Applications* **07**, 1–13 (2017).
3. Pucci, A. V., Oliveira, A., Amaral, F. & Oliveira, C. R. Effects of Trichosol™ on Increasing the Anagen Phase of the Capillary Cycle of Volunteers. (2019) doi:10.4172/2471-9323.1000139.

Together
we create the future
of personalizing medicine.

Fagron BV
Fascinatio Boulevard 350
3065 WB Rotterdam
The Netherlands

T +31 88 33 11 288
F +31 88 33 11 210
www.fagron.com

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