



TrichoSol™

Highly spreadable hydrophilic solution

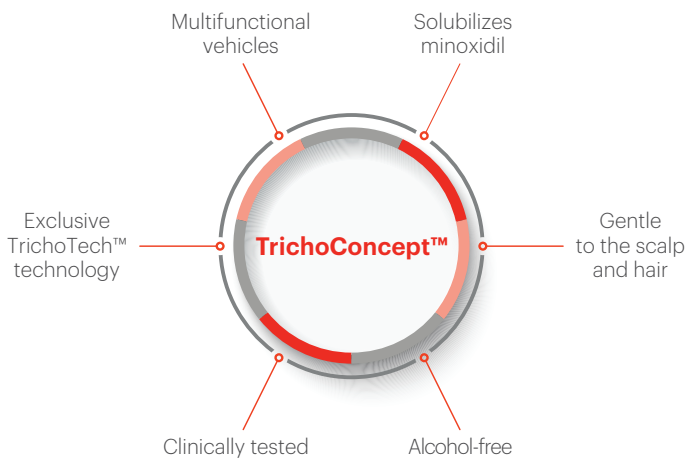
TrichoSol™

Topical treatments are an important part of dermatological conditions such as alopecia. And as important as the chosen active pharmaceutical ingredient (API) or dermaceutical ingredient (DCI), adequate vehicles to apply them on the scalp can contribute positively to achieving treatment efficiency.

TrichoSol™ is a highly spreadable hydrophilic solution containing mineral salts of vegetable origin, indicated for topical application of hair and scalp treatments focused on alopecia. Differently from most topical solutions for the scalp, **TrichoSol™** is alcohol-free, avoiding typical side effects normally associated with the continuous use of those products.

- 1 Soft formula
gentle to the scalp
- 2 Non-irritating
vehicle
- 3 Does not cause
hair or scalp dryness
- 4 Proven stability
with ingredients such as
minoxidil, latanoprost
and finasteride





TrichoConcept™

TrichoSol™ 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

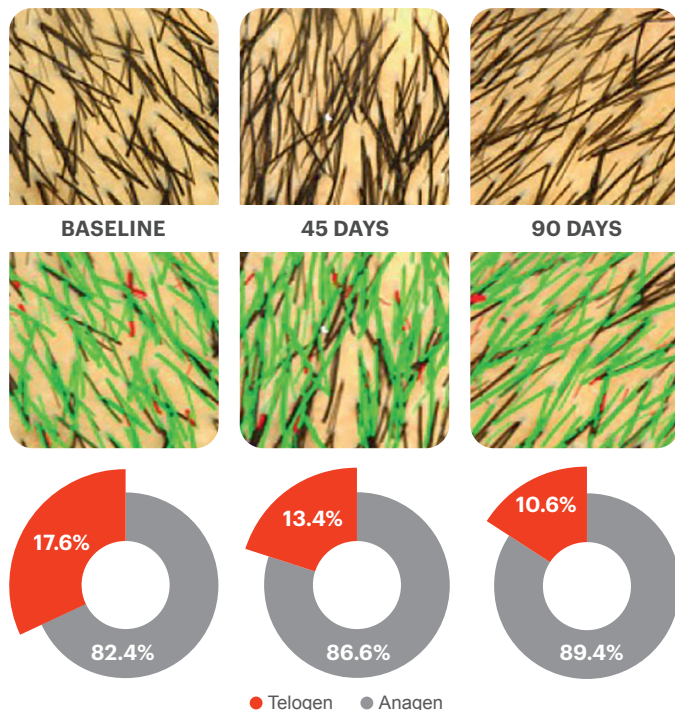


Figure 1. TrichoScan scalp images before treatment (baseline), after 45 and 90 days.

Patient identification: M.A.N.

Gender: Male

Age: 27

Diagnosis

Androgenetic alopecia.

Treatment protocol

- TrichoOil™ (once per week)
- TrichoWash™ (daily)
- TrichoCond™ (daily)
- TrichoSol™ + 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
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of personalizing medicine.



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