



MADE IN ITALY



LIQUORICE ROOT



NETTLE LEAF



OAK BARK

FERMENTHAIR HF

LONG-LASTING HAIR HEALTH PROMOTION

HAIR

COSMOS
APPROVED

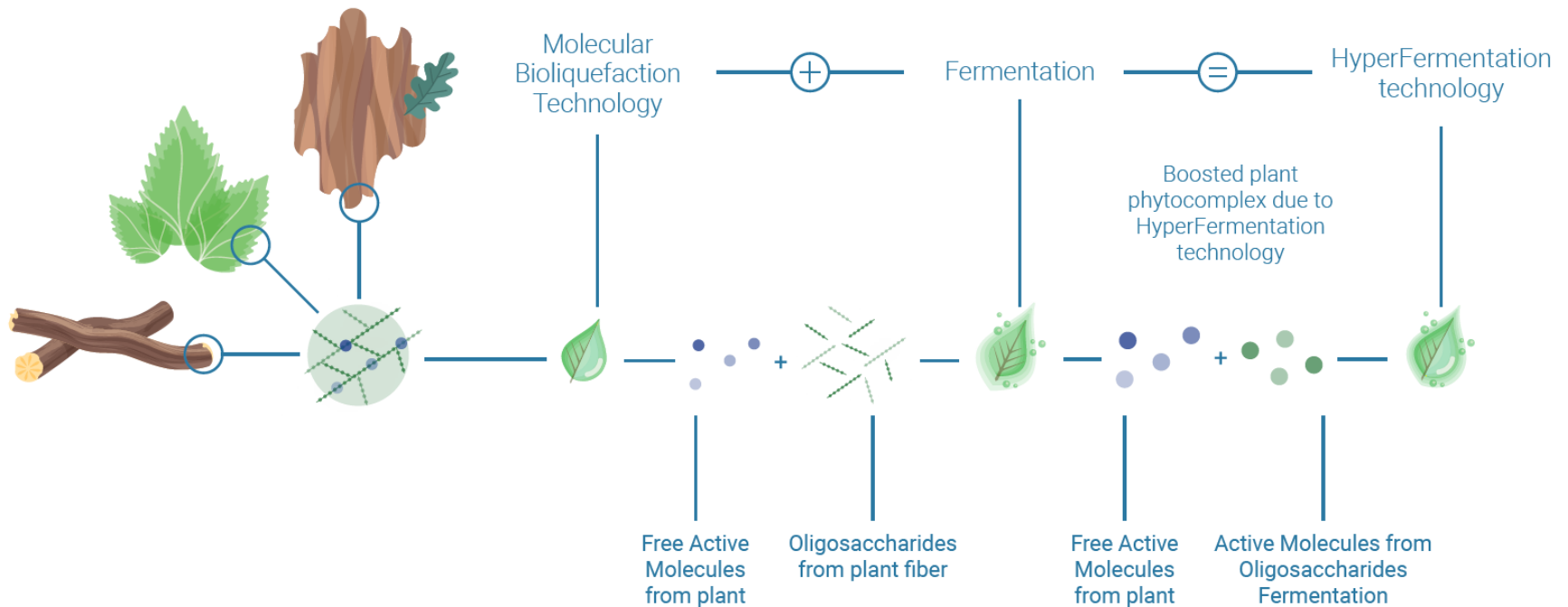
FERMENTHAIR HF



FermentHair HF is a blend of Italian plants used in different traditional medicines to reduce hair loss and stimulate hair growth. The phytocomplexes of nettle, liquorice and oak bark have been broadly studied for several beneficial properties such as high antioxidant and anti-inflammatory capacity, ability to modulate testosterone and DHT, stimulation of microcirculation, hair density and thickness.

FERMENTHAIR HF

The plants of FermentHair HF are processed through PhenbioX's exclusive HyperFermentation process in order to fully release the plant phytocomplexes and to boost it through the post-biotic complex produced by yeast.



Clinical and instrumental evaluation

Twenty female and male subjects were selected from a panel of volunteers, aged 18-60 years, with idiopathic chronic telogen effluvium causing mild to moderate thinning.

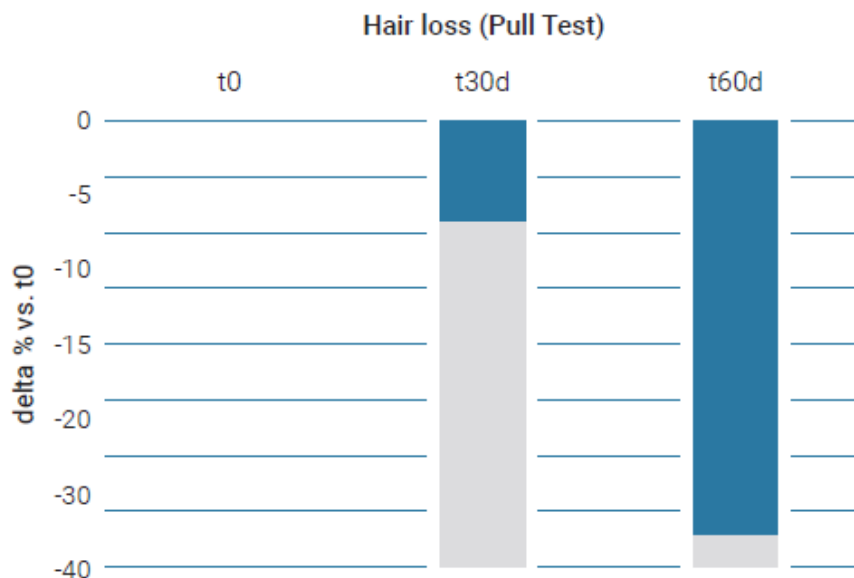
A simple lotion containing FermentHair HF 3% w/w (10-15 drops) was applied to the scalp once a day, rubbing until completely absorbed, for 60 days.

Demographic characteristics of the patients

	n = 20
Male	10 (50%)
Female	10 (50%)
Age (range)	20-52
Age (mean and SD)	39,65 ± 8,48

Pull Test

The Pull Test is a method that allows to estimate roughly the amount of hair loss. The dermatologist takes hair strands (12, each containing approx. 60 hair) between thumb and forefinger and pulls on them gently. If the number of lost hair is greater than 10, the test is positive and suggestive of telogen effluvium.



p<0.01

Ferment Hair HF reduces hair loss of

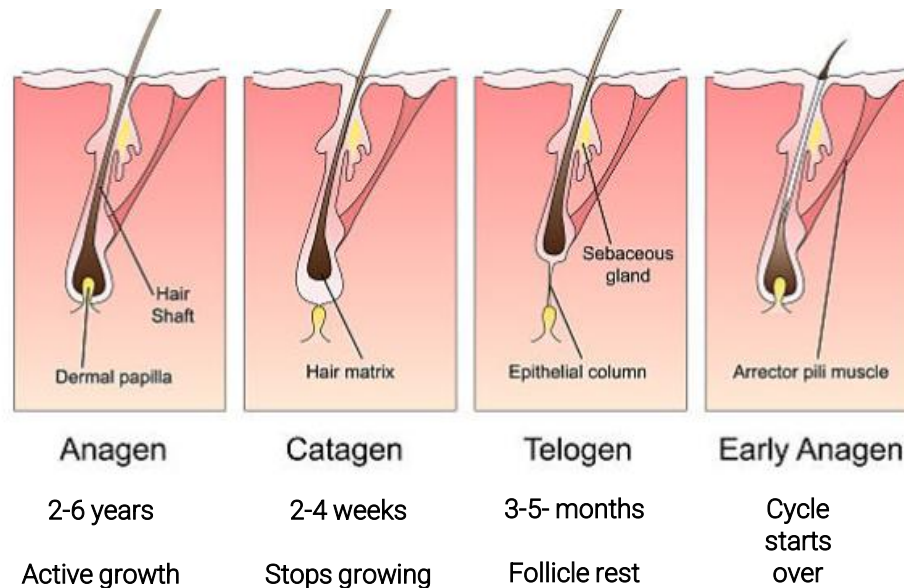
-9% in 30 days

-35% in 60 days

delivering a prompt and effective anti-hair loss effect.

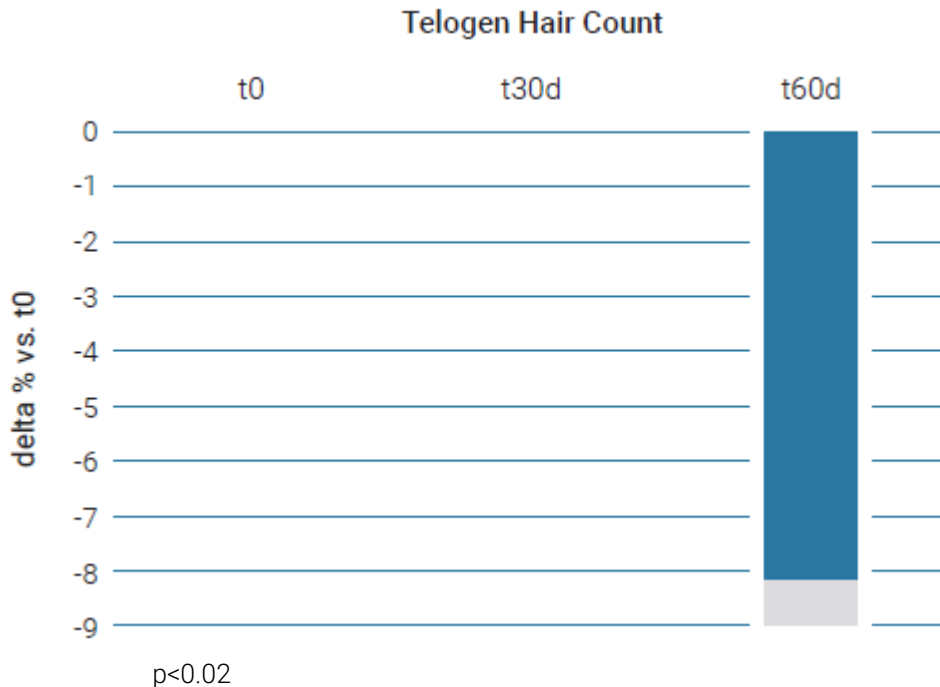
Phototrichogram

The Phototrichogram is an objective method that allows to evaluate the number of hair at different development stages and the total hair number. To obtain these numerical values volunteers' hair were trimmed to 1 mm in length. Immediately after shaving and after 48 hours photo-trichogram was acquired with a digital dermatoscope Dermalite HR pro. The two images were analyzed and compared with a dedicated software.



Telogen Hair Count

During Telogen Phase the follicle is resting and the hair is not growing getting. This is the stage where the dead hair is falling out.



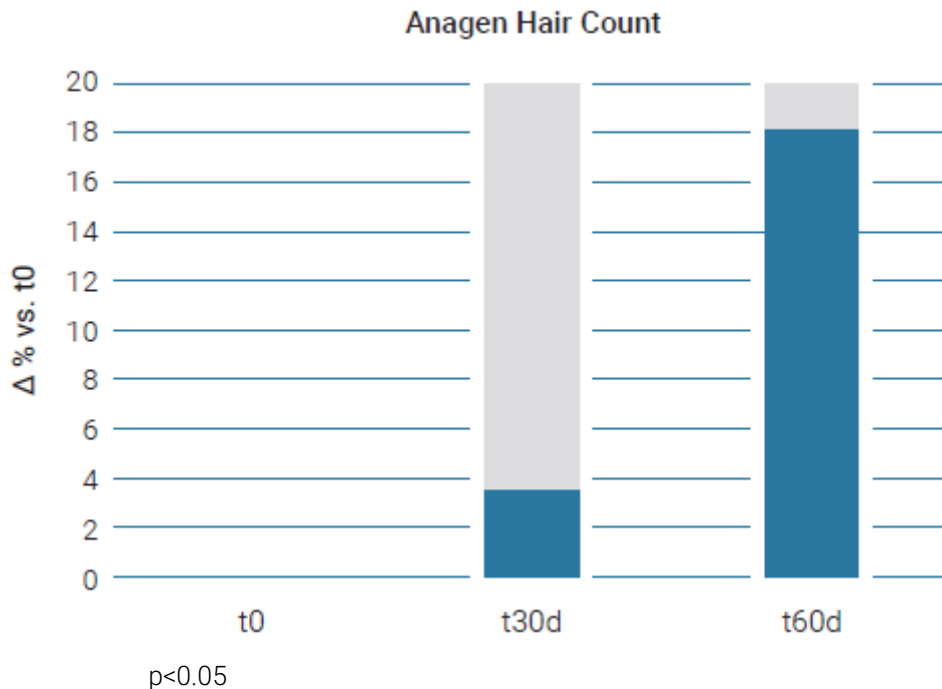
Ferment Hair HF reduces the number of hair in Telogen Phase of

-8% in 60 days

Confirming the effective anti-hair loss effect by increasing hair lifespan.

Anagen Hair Count

During Anagen Phase the follicle is producing new cells and the hair is actively growing.



Ferment Hair HF increases the number of hair in Anagen Phase of

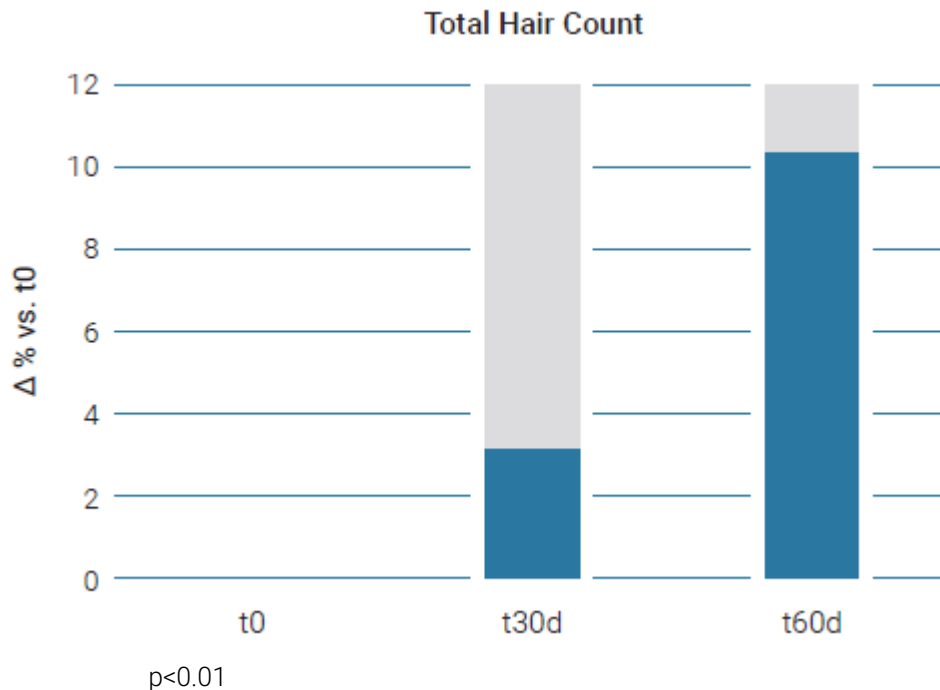
+3,6% in 30 days

+18% in 60 days

delivering an efficient stimulation to hair growth.

Total Hair Count

Total hair count is an important parameter to assess hair thickness and density.



Ferment Hair HF increases the total hair count by

+3,1% in 30 days
+10,3% in 60 days

increasing hair density.

Total Hair Count

Phototrichogram of a 46-year-old male subject with moderate telogen effluvium (pictures at time 0 and 60 days)



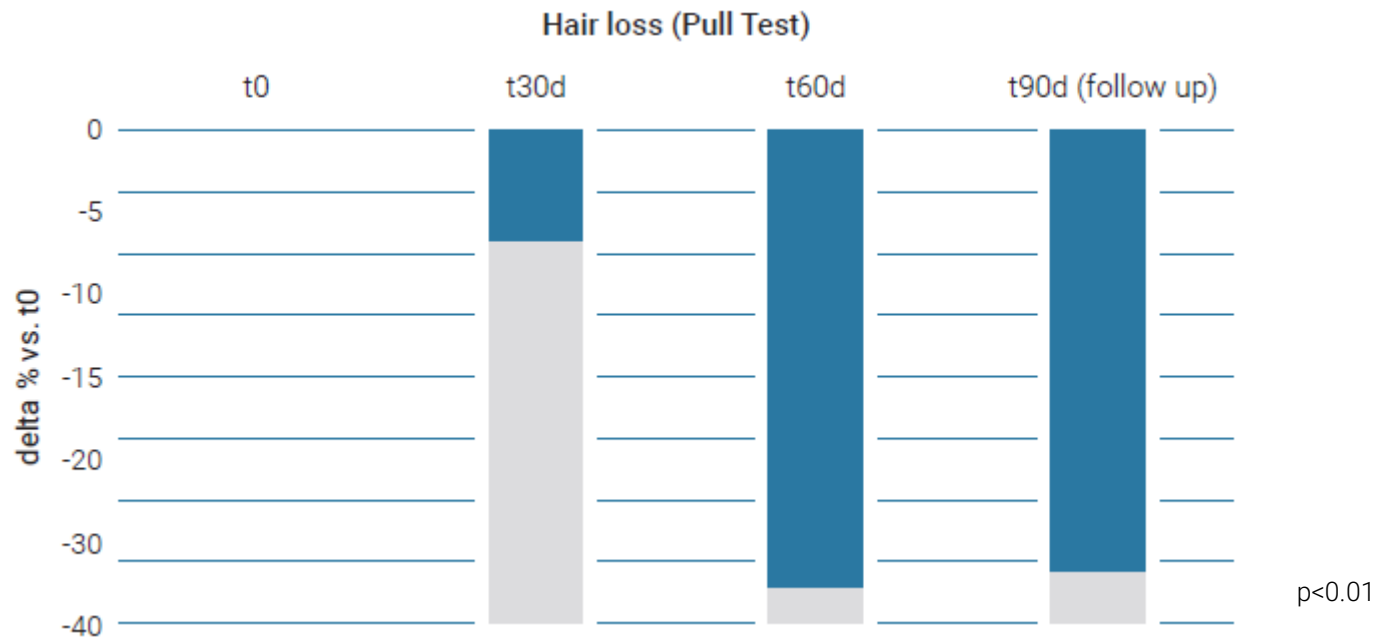
t0

t60d

Follow up assessment

To assess the long-term effects of FermentHair HF application even after suspending the treatment volunteers were further examine 30 days after concluding the trial.

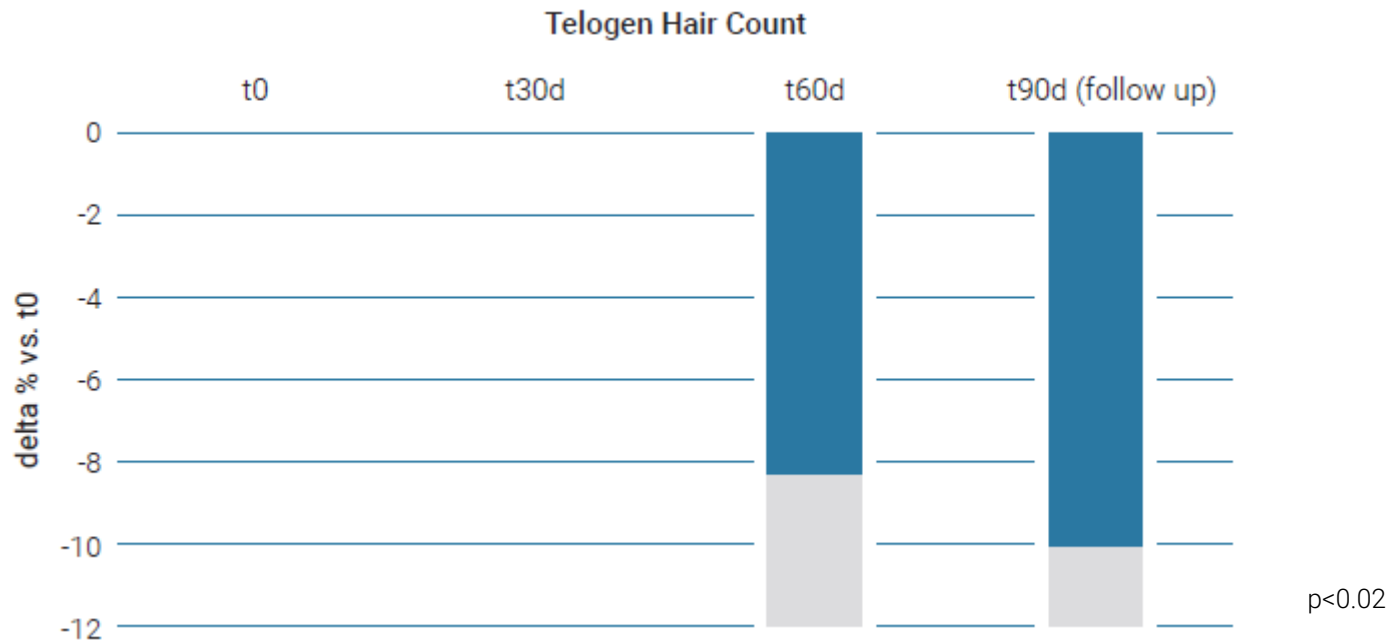
Pull Test



Follow up assessment

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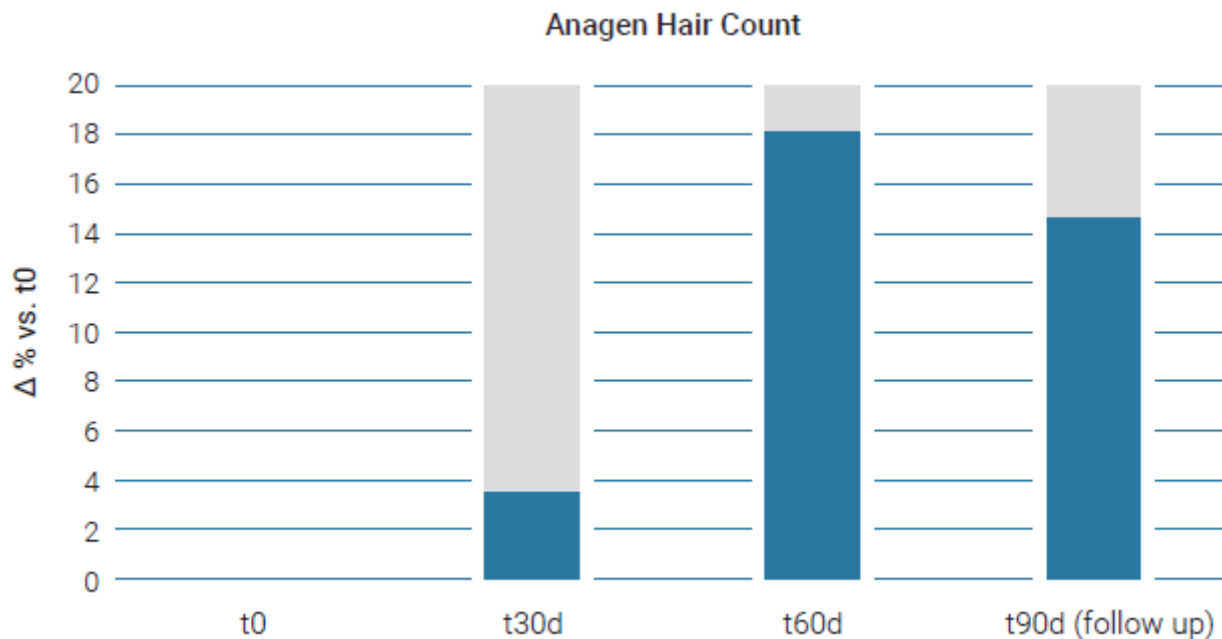
Telogen Hair Count



Follow up assessment

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Anagen Hair Count

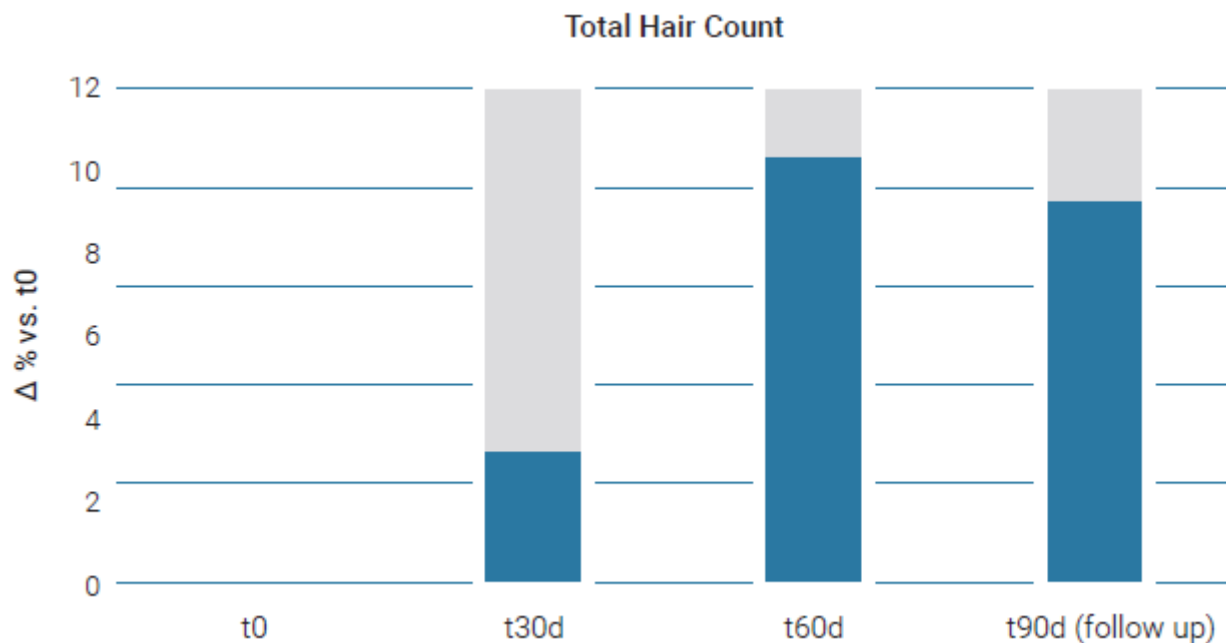


$p < 0.05$

Follow up assessment

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Total Hair Count



p<0.01

Follow up assessment

To assess the long-term effects of FermentHair HF application even after suspending the treatment volunteers were further examined 30 days after concluding the trial.

FERMENTHAIR HF IS ABLE TO DELIVER A STRONG AND LONG LASTING ANTI-HAIR LOSS EFFECT.

FERMENTHAIR HF IS ALSO ABLE TO PROMOTE HAIR GROWTH EFFICIENTLY AND WITH A LONG LASTING EFFECT EVEN AFTER SUSPENDING THE TREATMENT

BENEFITS

- Reduces hair loss (Pull Test -9% in 30 days, -35% in 60 days *in vivo* test)
- Increases hair lifespan (Telogen hair count -8% in 60 days *in vivo* test)
- Stimulates hair growth (Anagen hair count +3,6% in 30, days +18% 60 days *in vivo* test)
- Promotes hair density (Total hair count +3,1% in 30 days, +10,3% 60 days *in vivo* test)
- Long lasting effect even after treatment stop (*in vivo* test)

TECHNICAL INFORMATION

INCI: aqua/water, urtica dioica leaf extract, glycyrrhiza glabra root extract, quercus robur bark extract, saccharomyces ferment lysate filtrate, citric acid, sodium benzoate, potassium sorbate

Plant used: nettle leaf and oak bark from Emilia-Romagna region, liquorice root from Calabria region.

Technology: Hyperfermentation Technology

Suggested concentration of use: 3% w/w

Organic status: COSMOS approval submitted

China status: product is China listed