

## Test of Alpecin Hypo-Sensitive Shampoo against dandruff on individuals with sensitive scalps

**Product:**

Alpecin Hypo-Sensitive Shampoo against dandruff with a particularly mild surfactant formula. Contains no dyes, fragrance or preservatives.

**Test subjects:**

Twenty-two individuals aged 18 to 55 with sensitive, irritable scalps and resultant formation of dandruff on the scalp.

**Time period:**

The clinical test lasted six weeks.



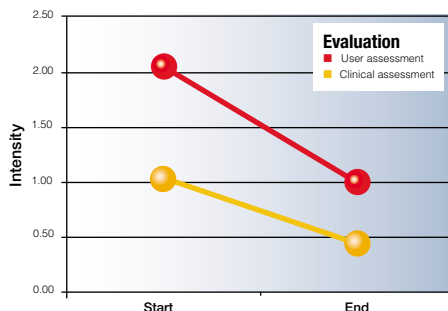
### Problem and test objective:

Scalp sensitivity can occur due to scalp dryness as well as scalps that become oily again quickly. In dry scalps, the natural skin barrier is disordered. The scalp feels taut and tends to itch and develop inflammatory reactions (eczema). Oily scalps, on the other hand, form irritant substances due to excess sebum and microorganisms that can also lead to scalp itch and increased dandruff. Microorganisms, e.g. the yeast *Malassezia furfur*, decompose the sebum, thereby generating irritant substances that can cause irritation and increased dandruff.

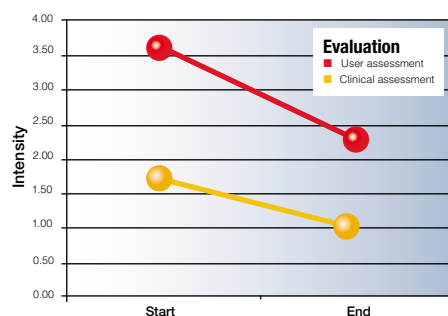
Typical shampoo bases with conventional anti-dandruff ingredients can additionally irritate the sebaceous glands and increase the scalp's sensitivity.

This sensitivity and irritability require special galenics with a particularly gentle anti-dandruff active ingredient to allow the scalp barrier to regenerate.

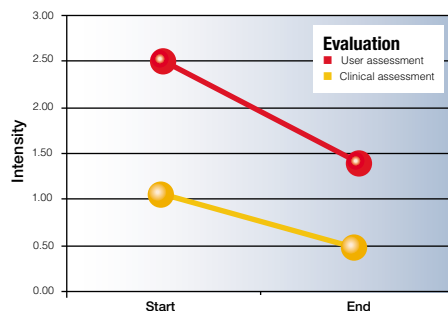
A testing phase of six weeks was supposed to show whether a shampoo formula without preservatives, fragrance or dyes could improve undesirable symptoms such as itching, dandruff, recurring oiliness and eczema both from a clinical standpoint and from the users' point of view.



Graphic 1: Scalp redness



Graphic 2: Dandruff



Graphic 3: Scalp dryness

## Result:

### The evaluation was made based on

- An objective assessment by the clinic staff  
(criteria: redness, dandruff, dry scalp, recurring oiliness and eczema)
- A subjective self-assessment of the test subjects  
(criteria: redness, taut sensation, recurring oiliness, dandruff and scalp itch)

### Discussion

After just three weeks of treatment, the test subjects noticed a significant decline of the problem symptoms of scalp itch, redness (graphic 1), dandruff (graphic 2), recurring oiliness, taut sensations and dry scalp (graphic 3), which continued over the following three weeks. Scalp itch in particular decreased to merely 42% of the original assessment. The symptoms of taut sensation (47%), recurring oiliness (56%), redness (55%), dandruff (67%) and dry scalp (65%) decreased accordingly to the values indicated in parentheses.

It became apparent that the immediate irritational effects of recurring oiliness, redness and scalp itch receded very quickly, while the consecutive symptoms of dry scalp, taut sensation and dandruff improved somewhat more slowly or with delayed onset from the users' point of view.

The clinical evaluation of the scalp was made at the start and at the end of the treatment period. The clinical observer noticed a decline in dandruff, redness and dry scalp, which was even more significant than in the users' judgment (graphics 1, 2 and 3).

### Summary:

The Hypo-Sensitive Shampoo is a new galenic development and contains none of the typical ingredients that can frequently trigger allergies. It contains no preservatives, fragrances or dyes. Analogous to the gentle surfactant galenics, a mild anti-dandruff active ingredient was used.

The symptoms successfully decreased for the test subjects in terms of all criteria, especially redness, scalp itch, dandruff and recurring oiliness, so that after six weeks of application 73% of the group of test subjects said they would like to continue using the Hypo-Sensitive Shampoo against dandruff, and 82% would even recommend it to other affected individuals.