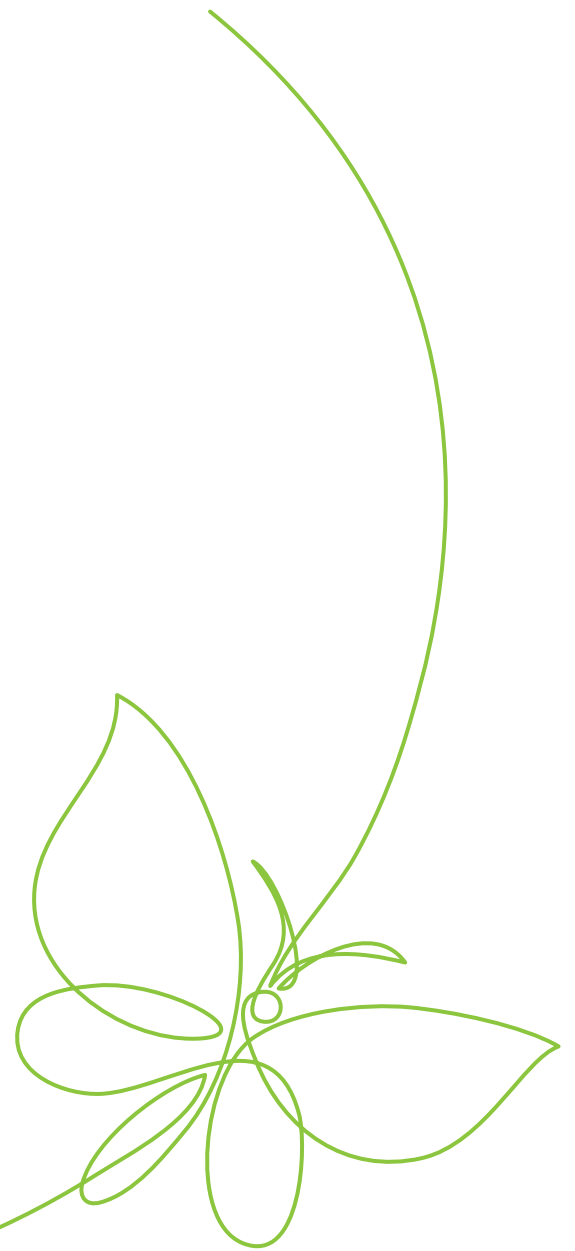


Pantrofina[®] PERFECTION

EQUILIBRIUM, EXPRESSION, HARMONY



Pantrofina® Perfection

Equilibrium, Expression, Harmony

INCI: Faex Extract, Ammonium Glycyrrhizinate, Mannitol, Arginine, Niacinamide, Calcium Pantothenate, Biotin, Allantoin, Threonine

Introduction

Pantrofina® Perfection is a complex of essential micro-nutrients (vit E, D, A) with a bio-modulating effect that stimulates metabolic activity of fibroblasts and promotes skin elasticity.

Its composition does not interfere with the skin's natural microbiotic balance, making it a versatile ingredient in the formulation of "skinceutical" textures. Clinical studies have shown its efficacy in stimulating skin elasticity as well as a revitalizer of the scalp reducing hair loss.

A 360° healthy ageing approach.

Equilibrium

Normalizing the microbiome to achieve skin health.

In a balanced skin ecosystem, the first step towards an idea of beauty, epidermal health is of utmost importance.

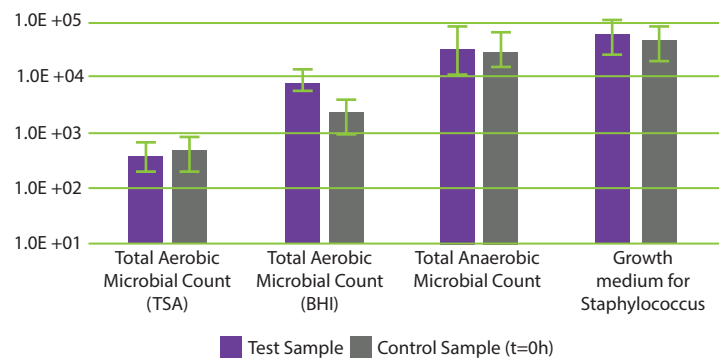
Epidermal condition reflects beauty in a balanced skin biome.

Pantrofina® Perfection is a blend of ingredients that are not only active, but also respect the skin's microbiome helping to maintain unaltered its composition and functionality.

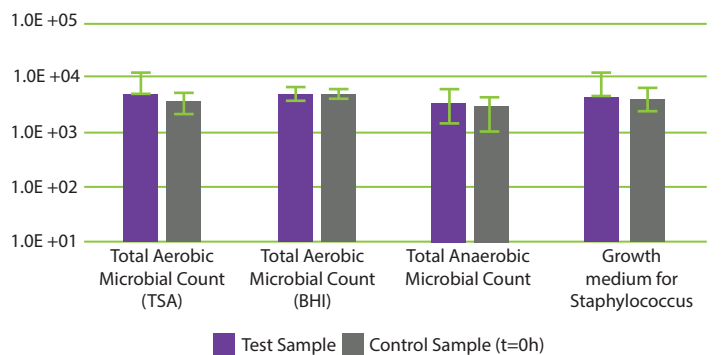
A Pantrofina® Perfection 1.25% solution was challenged with a specific facial and scalp micro-organism.

After a 2 - hour incubation period at 37° C, microbial counts were evaluated and PP showed to not alter microbiome.

Pantrofina® Perfection does not alter the microbiome of scalp



Pantrofina® Perfection does not alter the microbiome of facial skin



#microbiomefriendly

Expression

The perfect metabolic booster - *in vitro* test.

Pantrofina® Perfection not only respects the skin's microbiome, but also improves cell vitality.

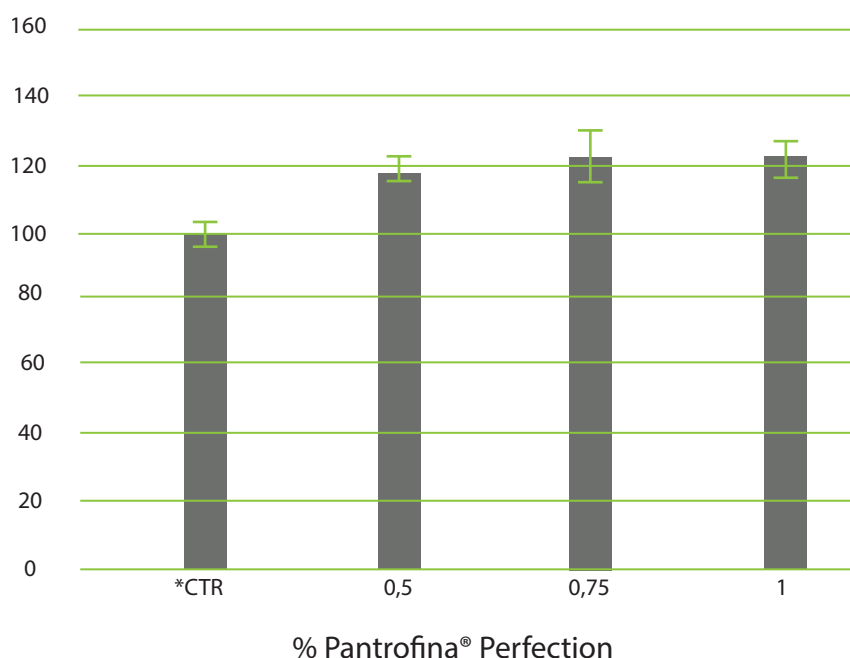
Pantrofina® Perfection stimulates cell metabolism, by enhancing fibroblast proliferation and increasing metabolic activity.

Metabolic response of different concentrations of Pantrofina® Perfection was measured by spectrophotometry according to the following formula:

$$\text{Cellular metabolic activity (\%)} = 100 \times (\text{Abs}_{\text{Sample}} / \text{Ab}_{\text{Sctr}})$$

$\text{Abs}_{\text{Sample}}$ is the average value of the measured absorbance of the tested samples

Ab_{Sctr} is the average value of the measured absorbance of untreated samples



*CTR: not treated cells (100% metabolic activity)

After a 24 h incubation period, a significant increase in percentage of metabolic activity was observed at all Pantrofina® Perfection concentrations tested.

#boostyourcells

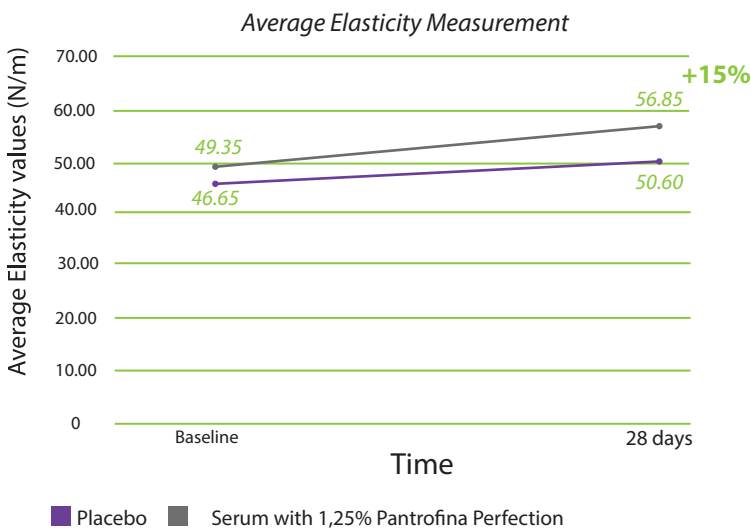
Harmony

Cell vitality: first step to healthier skin and scalp - **in vivo test.**

Preliminary in vitro test results supported further investigations on the efficacy of Pantrofina® Perfection. In vivo studies were conducted to show how this anti-ageing ingredient improves skin tone and elasticity. Enhancing scalp cell vitality has an important effect on bulb stimulation, which in turn may lead to a decrease in hair loss.

Anti-ageing - elasticity measurement

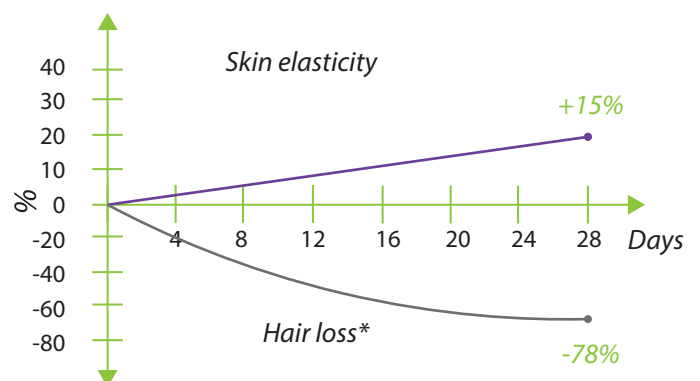
A simple formulation containing 1,25% of Pantrofina®Perfection, applied to facial skin for 28 days, resulted in a higher and statistically significant elasticity compared to the baseline measurements and compared to placebo.



Graphical representation of the average number of the elasticity at baseline and 28 days after the initiation of the study. The increase of skin elasticity is 15% compared to the start of treatment.

Anti-hair loss - pull test and autoevaluation

Under the supervision of a dermatologist, twenty female and males volunteers applied a 1.25% lotion of Pantrofina® Perfection to their scalp for 28 days. A hair pull test used to monitor the progress of hair loss diseases has been conducted. With more than 10% of the hair in a pulled bundle is removed, the results are considered positive. Four points on the scalp have been considered. After 28 days of treatment, the clinical evaluation of **78%** of the panelists was negative. **55%** of them had negative response after only 14 days of treatment.



*% Panelist who has positive pull test.

#skinup

Clinical Observation

Results:

After 28 days of treatment,
the average elasticity of the skin had improved by 15%

78% of subjects with a positive pull test at baseline did not show hair loss

55% of subjects perceiving an increase in hair volume

85% of panel with clinically assessed seborrheic dermatitis showed a significant reduction

89% of panel with initial positive pull test perceived a decreasing in hair loss

Pantrofina Perfection Tested formulation	
WATER	qb To 100
PANTROFINA® PERFECTION	1,25%
EMULPHARMA® ECO 10	0,5%
PRESERVATIVE	qb

Conclusions

Pantrofina®Perfection is a multipurpose active ingredient with demonstrated efficacy in:

- ✓ Increasing skin elasticity
- ✓ Reducing hair loss
- ✓ Respecting skin microbiome
- ✓ Boosting cellular metabolic activity

Regulatory & Sustainability

China Listed

Palm Oil Free

85% "Natural origin content" ISO 16128

85%
Natural Origin
Content
(ISO 16128)

Recommended use

Use Level 1,25 %

Optimal pH range of use: 4.5-8.0

Physical Appearance: Ivory powder

#perfectionportrait

INNOVATION BEYOND INGREDIENTS

“ Make it happens ”

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