

# GREDECO

Research and Assessment Group in Dermatology and Cosmetology

**Danielle Roches**

11 bis rue du Colisée

75 008 Paris

France

Paris, 23rd July 2009

## CLINICAL ASSESSMENT OF THE EFFECTIVENESS OF LIPOCILS EXPERT® ON LASH GROWTH AND COLOUR

### INTRODUCTION

The purpose of this study was to document and quantify the trophic activity and colour of lashes of Talika Laboratory's **LIPOCILS EXPERT** (batch 90529).

Previous studies on LIPOCILS (old formula) have already revealed the effectiveness of combining soybean lecithins and plant extracts on eye lash growth.

The new formula has been enriched to increase the curve and colour of lashes in addition.

### EQUIPMENT AND METHODS

#### Inclusion and exclusion criteria

We carried out an open clinical trial on 30 women over the age of 18 who had given their informed consent. Participants presenting past allergies, an auto-immune disease or progressive eye disease were excluded from the study.

#### Treatment

Talika Laboratory's LIPOCILS EXPERT® solution was applied morning and evening for 1 month on the lashes of the upper left lid, focusing on the root, versus the untreated right lid, to enable each participant to personally observe the results. Two visits were planned: on D0 for inclusion and D30 for the conclusion visit.

Macrophotographs were taken at each visit.

# GREDECO

## Research and Assessment Group in Dermatology and Cosmetology

### Assessment criteria

#### - Main assessment criteria:

- Assessment of **lash length** on the upper right and left lid on macrophotographs using millimetred paper strips: this measurement was taken at the central (C), inner (I) and outer (E) sectors of the lid on 5 elements.
- An average (I, C, E) as well as the increase % were calculated in patients whose lashes grew.
- Secondly, with account taken of the enlarged photograph, the largest and smallest actual increase in lash length was calculated.

#### - Secondary assessment criteria:

- Assessment of **lash colour** on the upper lid using scores: no modification (score 0), moderate increase (score 1 corresponding to a 50% colour intensification) or high increase (score 2). This assessment was carried out as a priority on participants with light lashes.
- Assessment of **lash curve** using scores: no modification (score 0), moderate increase (score 1 corresponding to a 50% colour intensification) or high increase (score 2).
- Assessment of product **tolerance**: depending on the possible appearance of subjective (irritation, stinging or burning when applying the product) or objective (erythema, vesicles possibly indicating an allergic reaction) manifestations.

### Statistical studies

An inter-group comparison to check group uniformity at the start (right eye versus left eye) was made.

An intra-group comparison was also made with a statistical analysis between D0 and D30 (Student test match with alpha risk <5%) so as to assess product effectiveness.

# GREDECO

## Research and Assessment Group in Dermatology and Cosmetology

### RESULTS

#### a) Measurement of lash length

The 30 women included were aged between 26 and 65 years old, i.e. an average of **44.7 ± 8.17 years**. Half of the participants recruited for this study had light lashes.

On D0, the inter-group statistical study enabled the uniformity of the 2 groups compared to be checked, right eye versus left eye for each participant.

On D30, the untreated right eye presents, on average, a lash length that is not significantly different from the length measured on D0.

However, the lash length of the left eye has increased significantly after treatment with LIPOCILS EXPERT in the 3 sectors analysed:

- In the Central sector of the upper lid (C)

- **60%** of participants present an increase in lash length (i.e. 18 out of the 30 participants).

- This increase is statistically significant ( $p < 0.05$ ) and corresponds to a 27% lash extension.

- The average lash length increase calculated for the 18 participants was **2.24 mm ± 1.25 mm** with a minimum extension of 0.98 mm and maximum extension of 3.5 mm.

- The maximum growth observed in one participant is 4.1 mm.

- In the Outer sector of the upper lid (E)

- **80%** of participants present an increase in lash length (i.e. 24 out of the 30 participants).

- This increase is statistically significant ( $p < 0.05$ ) and corresponds to a 38.1% lash extension.

- The average lash length increase calculated for the 24 participants was **2.25 mm ± 1.72 mm** with a minimum extension of 0.92 mm and maximum extension of 3.58 mm.

- The maximum growth observed in one participant is 3.75 mm.

- In the Inner sector of the upper lid (I)

# GREDECO

## Research and Assessment Group in Dermatology and Cosmetology

- 70% of participants present an increase in lash length (i.e. 21 out of the 30 participants).
- This increase is statistically significant ( $p < 0.05$ ) and corresponds to a 43% lash extension.
- The average lash length increase calculated for the 21 participants was **1.57 mm  $\pm$  0.92 mm** with a minimum extension of 0.6 mm and maximum extension of 2.66 mm.
- The maximum growth observed in one participant is 3.2 mm.

The results are illustrated by photographs of the participants' lashes: 12, 17, 25 and 28.

### b) Assessment of lash colour

The increase in lash colour was 100% for participants with light or not very dark lashes.

The average increase score obtained on D30 is  $1.06 \pm 0.35$ , corresponding to a 50% colour intensification.

### c) Assessment of lash curve

In 50% of the cases analysed, we observed an increase in lash curve. The average increase score obtained is  $0.92 \pm 0.25$  on D30, corresponding to a 50% curve intensification.

### d) Tolerance assessment

Tolerance was good with only 9 cases out of the 30 participants included in the study describing ocular stinging upon first applying LIPOCILS EXPERT, which generally disappeared as the product dried in a few seconds, except in 2 cases whose eyes stung at every application.

## CONCLUSION

This clinical study, conducted on 30 participants, revealed the effectiveness of LIPOCILS EXPERT on lash growth and colour, by comparing the treated left eye to the untreated right eye. Stimulation of lash growth was statistically significant with a 27% increase (2.4 mm in average length with 0.9 mm minimum and 2.5 mm maximum) in the median sector of the upper lashes, 38.1% increase

---

Limited liability company with capital of €40,000 Trade & Companies Register no. Paris 392 221 230 SIRET no. 392 221 230 00015. APE no. 731Z French VAT no. 61392221230

**Head office:** 121, rue de la Pompe, 75116 Paris **Laboratories:** 45 Bd V. Auriol 75013 Paris  
**Tel.:** +33 (0)1-45-86-58-82

# GREDECO

## Research and Assessment Group in Dermatology and Cosmetology

in the outer sector (2.25 mm in average length with a 0.92 mm minimum and 3.58 mm maximum) and 43% increase in the inner sector (1.57 mm in average length with a 0.6 mm minimum and 2.66 mm maximum). The maximum increase in lash length obtained was 4.1 mm.

All the participants presenting light or not very dark lashes noticed that their lash colour increased by 50%.

A 50% increase in lash curve was also observed in half the participants.

# GREDECO

Research and Assessment Group in Dermatology and Cosmetology

## Table I:

**Lash length (mm)** at the central (C), inner (I) and outer (E) sectors

Average  $\pm$  SD

Untreated right eye	D0	D30
Sector C	8.43 $\pm$ 2.26	8.94 $\pm$ 2.21
Sector E	7.11 $\pm$ 2.15	8.01 $\pm$ 2.07
Sector I	3.89 $\pm$ 1.59	3.58 $\pm$ 1.65

Left eye treated with LIPOCILS EXPERT	D0	D30
Sector C	8.31 $\pm$ 2.47	10.55 $\pm$ 2.39 *
Sector E	6.35 $\pm$ 2.30	8.77 $\pm$ 2.62 *
Sector I	3.80 $\pm$ 1.15	5.42 $\pm$ 1.35 *

\*: statistically significant difference compared with the score on D0 (Student test match,  $p < 0.05$ )