



**ABICH S.r.l.**  
Biological and Chemical Analysis  
Toxicology, Research and Service

AZIENDA CERTIFICATA  
UNI EN ISO 9001:2000  
Certificato N. 501004992

## **ANTI-CELLULITIS EFFICACY STUDY ON A COSMETIC TREATMENT**

Extract from study program Biolab SAM3494i, of the 26/10/2006

### **Customer:**

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### **Tested products :**

*Karin Herzog Dynamic Duo: Tonus B12 + Silhouette cream*  
*Silhouette was applied in the morning, and Tonus B12 in the evening*

### **Charged assay center:**

Biolab S.p.A., via B. Buozzi 2,  
20090 Vimodrone (Milan) Italy  
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**Investigators:** Study Director: dr. Michel Cavalleri; Scientific Supervisor: Dr.ssa Angius, dermatologist.

The study was performed on 20 healthy volunteers, aged 23-65, in accordance with the Helsinki Declaration and with ICH GCP guidelines.

The weight of the volunteers was within 15% of the ideal height/weight balance according to the Metropolitan tables for the balance height/weight.

The following parameters were measured at the beginning, after 15 days and at the end of the treatment: thighs and hips circumference, skin elasticity, skin reformation ability. Each measure is the average result of three replica.

Application: thighs, buttocks and hips, for 30 days.

**Date and Author of this report:** 08 march 2010

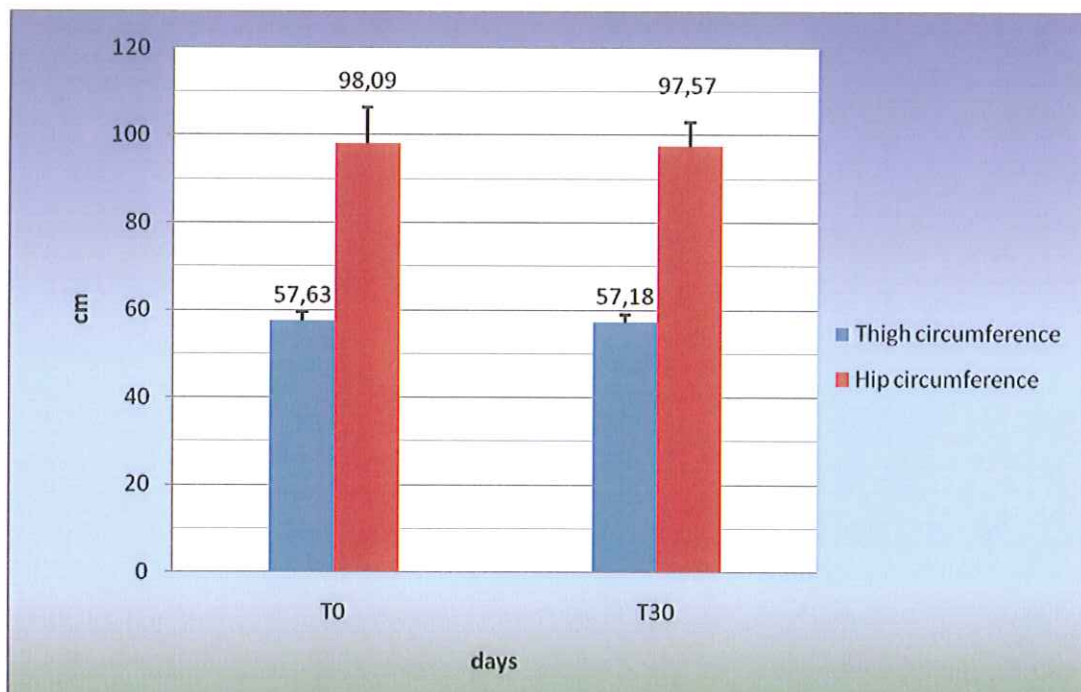
Dr. Elena Bocchietto



## RESULTS

### Reduction of thighs and hips circumference

An expert physicians evaluated the amount of fatty layer under the area of examination, by measuring the circumference of thighs and hips at the beginning (T0) and at the end (T30) of the experiment. Dynamic Duo resulted to be effective in reducing the thigh and hips circumference after 30 days of usage.



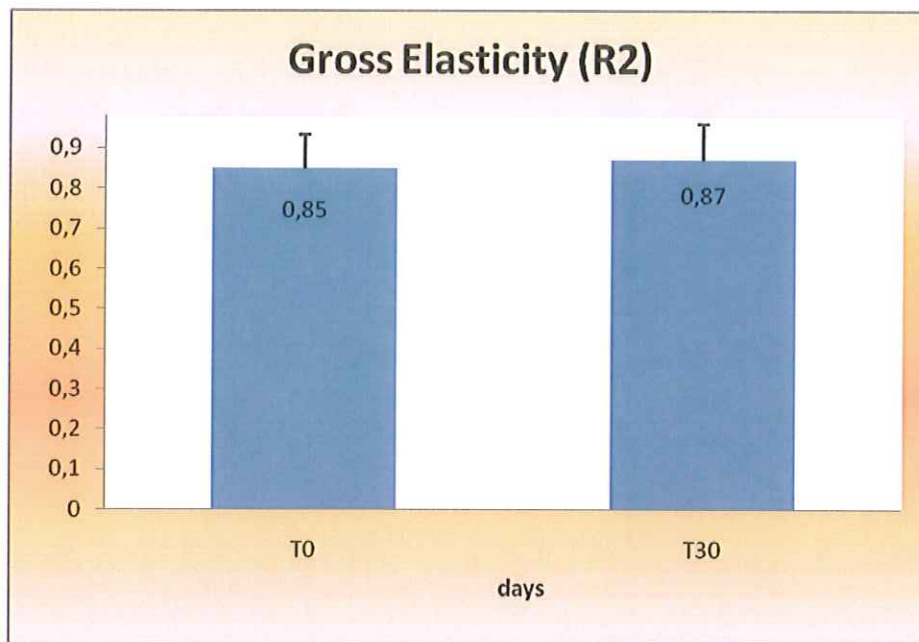
In the graph above we can see the average reduction measured in cm of the thighs and hips circumference after 30 days (T30) compared to the beginning of the experiment (T0).

Both the **thigh circumference reduction (-0.78%)** and the **hips circumference reduction (- 0.53%)** at T30 are highly significant ( $p < 0,00005$ ).



### Increase of Skin elasticity (R2)

The skin elasticity was measured with a Cutometer® MPA580 (courage-Khazaka GmbH) at the beginning (T0) and after 30 days (T30) of treatment

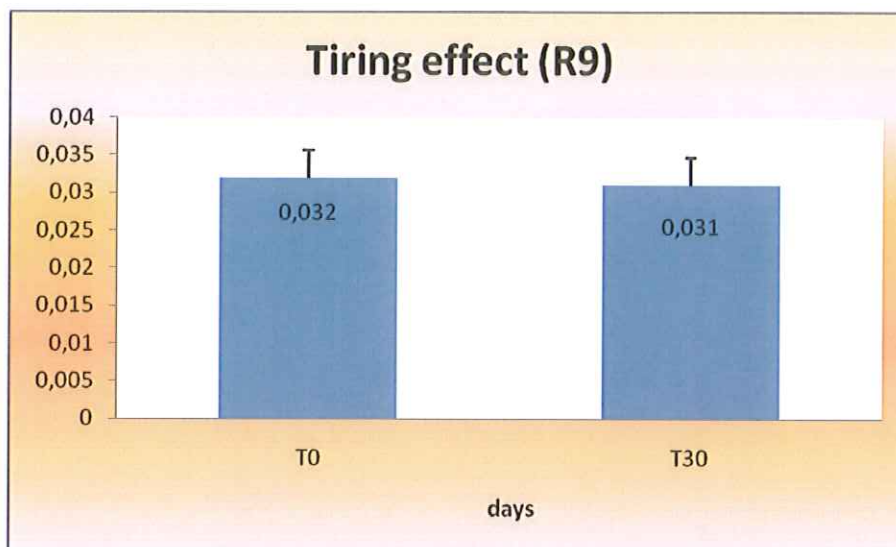


There was an average **increase of skin elasticity of + 2.35%** in the treated area.



### **Skin re-deformation ability (R9)**

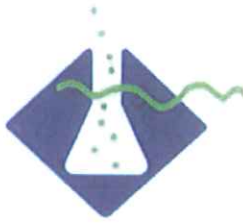
The skin re-deformation ability was measured with a Cutometer® MPA580 (courage-Khazaka GmbH) at the beginning (T0) and after 30 days (T30) of treatment



There was an average **decrease of skin re-deformation ability -3.13%** in the treated area. That means that the skin was more tonic and firm at the end of the treatment.

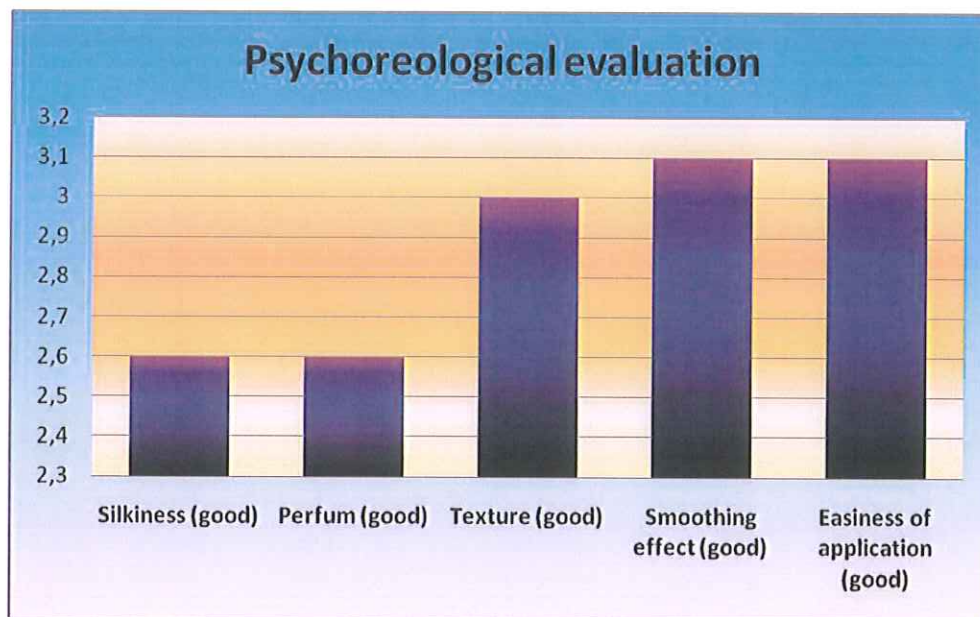
Moreover, direct observation of the treated skin areas showed on average **a decrease of skin dimpling and skin depressions**





## Psychoreological evaluation

The treatment was also capable to improve skin smoothness, and to highly improve skin light and skin silkiness, as resulted from the volunteers examination at the end of the investigation (see the graph below):



Legenda:

3,5-4	very good
2,6-3,5	good
1,6-2,5	fairish
0,6-1,5	tolerable
<0,5	untolerable

Moreover volunteers declared that already after 2 weeks of application, **they felt less tension and heaviness on lower limbs**

## **CONCLUSION**

**The karin Herzog Dynamic Duo treatment was considered EFFECTIVE as an anticellulitis treatment.**