

**EVALUATION OF THE HYDRATION EFFICACY OF A COSMETIC PRODUCT  
AFTER APPLICATION UNDER DEFINED CONDITIONS  
IN NORMAL SUBJECTS**

**ACUTE HYDRATION - 48H**

**Objective evaluation of the hydration by "capacitance" method**

**STUDY NUMBER:** 810613.A

**OBJECTIVE**

The aim of the present study is to assess the **hydration efficacy** at 24H and 48H, of the product **LEITE CORPORAL LEITE DE BURRA, BATCH 330126/A 657** after a single application in healthy human volunteers.

**DATES OF STUDY:** Beginning: June 24<sup>th</sup> 2013  
End: June 26<sup>th</sup> 2013

**VOLUNTEERS**

- **Number of volunteers defined in the protocol : 10**
- **Number of volunteers who performed the study: 15** (15 included volunteers, no exclusions and no drop-outs).
- **Specific inclusion criteria :**
  - age: 18-65 years old,
  - gender: female
  - phototype (Fitzpatrick): I to IV,
  - all types of skin.

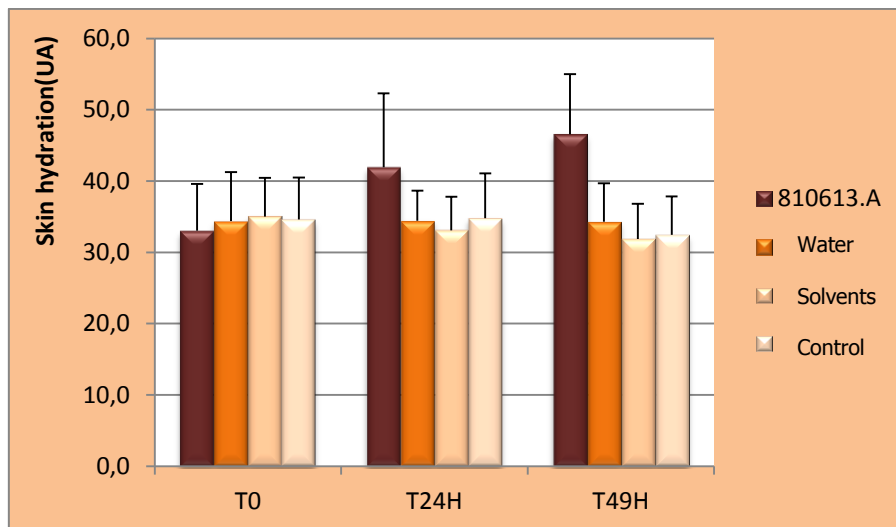
**METHODOLOGY (SUMMARY)**

The experimental conditions and protocol Schedule were as follow:

Product name	Product directions of use	Quantity to be applied	Environmental conditions
<b>LEITE CORPORAL LEITE DE BURRA, BATCH 330126/A 657</b>	In the study centre, by a technician, with the help of a finger cot by slight massage till its complete penetration, in an area of 1cm <sup>2</sup> in the forearm	10mg/cm <sup>2</sup>	All measurements involve a prior acclimatisation period and are performed in a controlled environment (21 °C ± 1°C, 45% ± 10%).

**RESULTS**

Results were as follows:



**Figure 1** - Skin hydration (AU) evolution during the study. Mean + sd values of all the volunteers (n=12). Also shown is the statistical comparison against the control (\*:  $p < 0,05$ ; N.S.: Non-significant)

## CONCLUSION

Under the experimental standardized conditions adopted and after all the statistical analysis we concluded that:

The product **LEITE CORPORAL LEITE DE BURRA, BATCH 330126/A 657** presented a statistically increase in the skin hydration after 24 hours of application of 29.2%, when in comparison against water, and a statistically increase in the skin hydration after 24 hours of application of 24.7%, when in comparison against the solvents, thus been considered hydrating.

The product **LEITE CORPORAL LEITE DE BURRA, BATCH 330126/A 657** presented a statistically increase in the skin hydration after 48 hours of application of 45.3%, when in comparison against water, and a statistically increase in the skin hydration after 48 hours of application of 51.7%, when in comparison against the solvents, thus been considered hydrating.

These results show that product **LEITE CORPORAL LEITE DE BURRA, BATCH 330126/A 657** strengthen skin hydration at 24H, after one application, and at 48H after two applications.

## Scientific Manager : Pedro CONTREIRAS PINTO

I the undersigned, Pedro CONTREIRAS PINTO, declare that:

- the final report was examined on July 4<sup>th</sup>, 2013,
- the results reported accurately and completely reflect the raw data of the study.