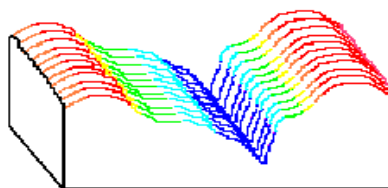


C.E.R.CO.



Certified AFAQ ISO 9001:2008

**12, rue de Penthièvre
75008 Paris
Tel. : 01-42-66-00-34**

**FINAL REPORT – Efficacy Study
*La decollette .09B / 10 / 1***

**EVALUATION OF THE EFFECT ON THE SKIN RELIEF
BY FRINGE PROJECTION
SCREENING**

Study Sponsor :

: C.E.R.CO.
12 Rue de Penthièvre
75008 PARIS

Investigator

: V.COUTURAUD – CERCO
Pharmacist - MD
Master Degree of Cutaneous Biology and Cosmetology

Study manager

: D.GAUTIER – C.E.R.CO
Technician

Product studied:

**LA DECOLLETTE®
With and without cosmetic product (neck and chest)Dr Pierre RICAUD**

Study report : September 27th 2010 (tested from April to July 2010)

CONTENT

1. OBJECTIVE OF THE STUDY

2. MATERIAL AND METHODS

2.1. EVALUATION CRITERIA

2.2. PRINCIPLE AND MEASUREMENT MATERIAL

2.2.1. SKIN MICRORELIEF

2.2.2. IDENTIFICATION OF THE PROFILE PATTERNS

2.2.3. MEAN PATTERN OF ROUGHNESS

2.2.4. DIRECTIONAL ASPECT OF THE RELIEF

2.2.5. MEASUREMENTS

2.2.6. MEASUREMENT MATERIAL

2.3. METHOD'S RELEVANCE

2.4. PROTOCOL

2.4.1. ZONE OF MEASUREMENTS

2.4.2. STUDY PROTOCOL

2.4.3. RESULTS ANALYSIS

2.5. SELECTION OF THE VOLUNTEERS

2.5.1. CRITERIA FOR INCLUSION

2.5.2. CRITERIA FOR NON-INCLUSION

2.5.3. NUMBER OF VOLUNTEERS

2.6. PRODUCT TESTED

3. REGULATIONS, PRIVACY, ADMINISTRATIVE FORMALITIES (PAPERWORKS?)

3.1. REGULATIONS

3.2. ADMINISTRATIVE FORMALITIES

3.2.1. INSURANCE SUBSCRIPTION

3.2.2. INFORMED CONSENT FORM

3.2.3. DATA ARCHIVING

4. TRACKING and DEVIATIONS

5. VOLUNTEERS CHARACTERISTICS

6. RESULTS

6.1. ANALYSIS OF THE GLOBAL ROUGHNESS

6.2. ANALYSIS OF THE ANISOTROPY

6.3. ANALYSIS OF THE DEEP LINES ROUGHNESS

7. CONCLUSION

8. BIBLIOGRAPHY

QUALITY CONTROL

APPENDIX

EVALUATION OF THE CUTANEOUS EFFECT ON THE RELIEF
BY FRINGE PROJECTION AFTER USE OF
LA DECOLLETTE®

1. OBJECTIVE OF THE STUDY

Evaluation of the cutaneous relief variations on the neckline, by fringe projection, after use of **la Decollette®**.

Measurements before, after one night, and after 15 days of use.

First part : using **la Decollette®** alone.

Then, second part : using **la Decollette®** in association with a cosmetic cream (neck and chest)

2. MATERIAL ET METHODS

2.1. Evaluation criteria

Observation and quantification of the evolution of the skin microrelief with fringe projection method.

2.2. Principle and measurement material

2.2.1. Skin microrelief morphology

The skin microrelief (2) defines the primary and secondary lines of the Hashimoto classification (1)

During aging, the relief changes occur with changes on orientation, depth and width of the network of lines, and the appearance of other lines (secondary), revealing geometric figures that are unusual.

Cosmetics treatments change significantly the skin microrelief.

We can observe :

- a refinement of the primary lines
- a smoothing secondary lines
- a restructuring, corresponding to a recurrence of usual (common) geometric figures
- a tightening effect which results in a particular orientation of the primary lines
- an accent, that is an increase in depth and width of the lines. This is a negative effect.
- astringency which corresponds to a tightening of the relief structure

2.2.2. Identification of the profile patterns.

A pattern is a portion of profile, between the highest points of two local projections of the profile, consecutive or not : a pattern start from a top to a second one, through a hollow.
 A pattern is defined by its height and width (fig.1) :

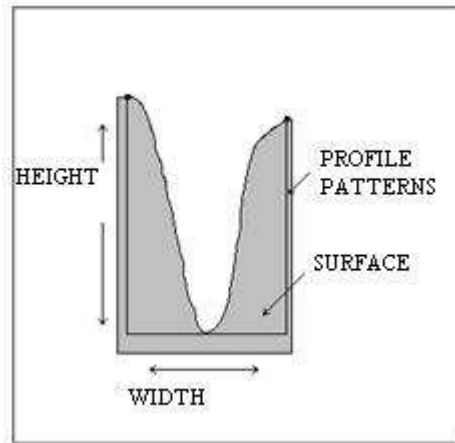


Figure (1) Definition of a pattern

2.2.3. Mean pattern of roughness

Once the patterns have been found by the detection algorithm, it is possible to characterize a profile by the mean patterns relating to its roughness.

The parameters of the mean patterns for the roughness are noted R for the mean height.

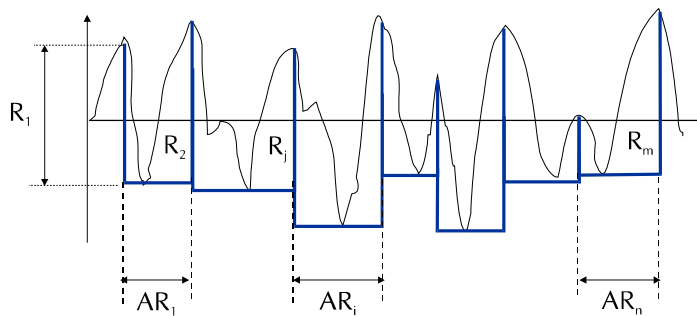
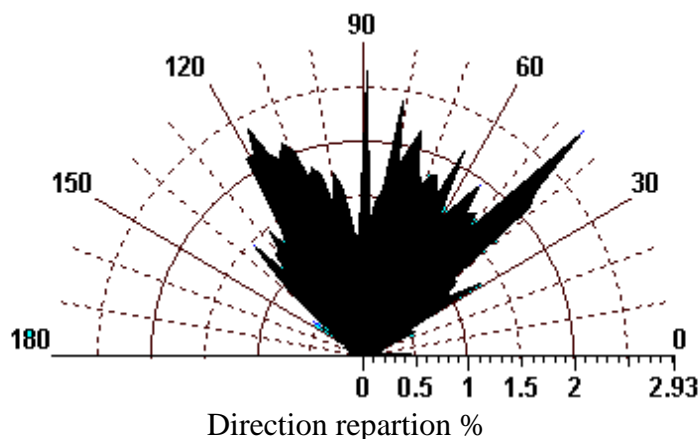


Figure (2) Mean pattern of roughness.

The SRx parameter allows the profiles analysis in one direction, cutting perpendicularly the primary lines.

2.2.4 Directional aspect of the relief.

This analysis allows quantifying the distribution of the relief based on the direction of the skinfolds. The orientation distribution of the line is quantified as a compass rose, the density in a triangular element corresponds to the number of motifs of the lines that have this orientation.



To assess the changes in skin line anisotropy during aging, it is useful to introduce an anisotropy index from direction roses, in order to classify the particular anisotropy of skin lines. A completely anisotropic surface gives rise to a direction rose concentrated into a single angular sector. Conversely, a perfectly isotropic surface leads to a circular direction rose.

2.2.5. Measurements

Fringe projection technique combined with optical triangulation technique provides a very powerful tool for measuring in 3D and with non contact absolute shape with high resolution and details

A first series of square pattern with progressive frequency is used to determine the absolute position of point in the 3D measurement volume of the sensor, followed by series of 4 pattern having sinusoidal fringe contrast equally shifted from each other for producing a 90° phase shift. The phase image calculated from this series produce a high resolution relative deviation between points. Absolute data is combined with this high resolution information to produce high resolution topographies.

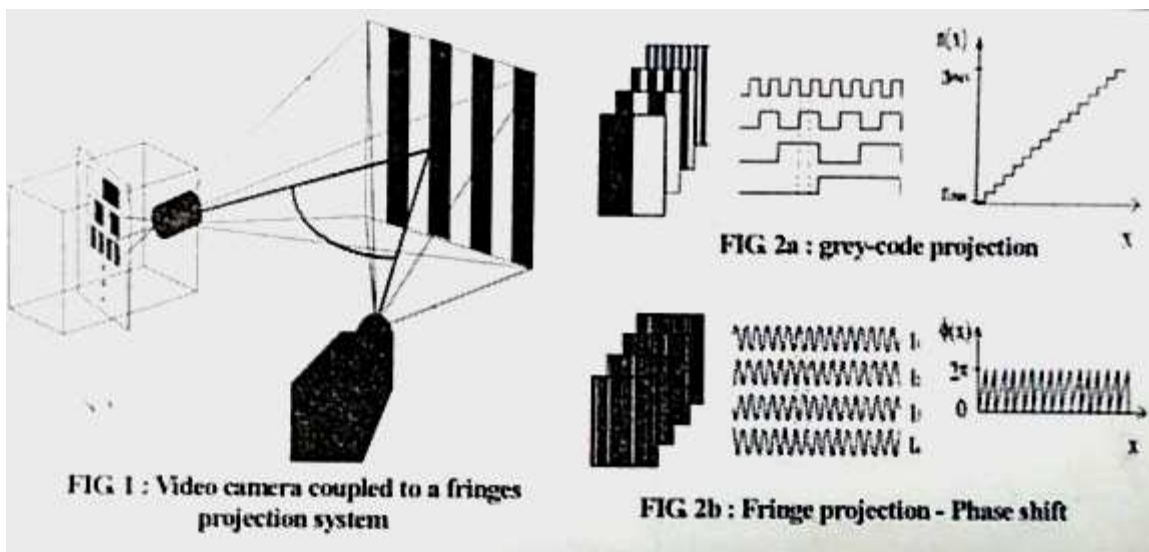


Fig.1 : Fringe projection - principle

Depending on the parameters studied, the images can be filtered (convolution 0.800 microns - High Frequency) in particular to favor the analysis of secondary lines in the case of calculating the anisotropy.

Analysis of roughness parameters and the overall degree of anisotropy will be conducted on the total area.

Analysis of deep lines will be focusing on a selected area such line.

2.2.6. Measurement material

Video camera coupled to a fringes projection system : Breuckmann MicroTOP®, modèle HE025.

Video camera CCD : 1280 x 1024 pixels.

Zone : 15mmx15mm.

Acquisition system : software Optocat®

Measure system : software Dermatop®

Analysis 3D system : software Toposurf®.

2.3. Method's relevance

Among the different techniques of profilometry, fringe projection technique is a fast, accurate (<5µm) with good repeatability (<4%), good reproducibility (<6%) which allows us to quantify changes the surface of the skin, provided that the replica are no artefact.

2.4. Protocol

Reference and version number of the test method: I-12-09B-B

2.4.1. Zone of measurements

The chest.

For each volunteer, 3 zones have been chosen and analyzed. A mean value is done.

2.4.2. Study protocol

Part 1 (Decollette® only)

T0 :

- The volunteers come to the laboratory without any cosmetic product on their chest since 1 week.
- The volunteers complete and sign the agreement and information form.
- Realization of replica Silflo® at the neckline.
- Distribution of **la Decollette®** to the volunteers. They have to use it all nights, during 15 days.
- Distribution of a questionnaire.

T24hours :

- The volunteers come to the laboratory after their first night using **la Decollette®**.
- Realization of replica Silflo® at the neckline.

T15days :

- Realization of replica Silflo® at the neckline.

A washout period (without cosmetic product or Decollette®) has been followed between the 2 parts of the study : minimum 3 weeks

Part 2 (Decollette® +cosmetic cream (neck and chest):

T0 :

- The volunteers come to the laboratory.
- Realization of replica Silflo® at the neckline.
- Distribution of a cosmetic cream (neck and chest) to the volunteers. They have to use it all nights, during 15 days.
- Distribution of a new questionnaire.

Protocol :

- Apply the cosmetic cream on the chest
- Let it penetrate during at least 15 minutes
- Put on **la Decollette®** for the night

T24hours :

- The volunteers come to the laboratory after their first night using **la Decollette®** and the cosmetic cream.
- Realization of replica Silflo® at the neckline.

T15days :

- Realization of replica Silflo® at the neckline.

NB : illustrative pictures -attached in appendix- have been made on a volunteer

2.4.3. Results analysis and interpretation

- Mean-values are calculated, based on the SRx values (3 zones studied per volunteer) for each Time of the study
- Calculation of the global effect :
Calculation of the percentage of variation compared to the initial value, from the mean values and for each parameter, to have the whole effect of the product.
- Results analysis and interpretation based on data obtained under the experimental conditions adopted.

2.5. Selection of the volunteers:

2.5.1. Criteria for inclusion

The volunteers should:

- have passed the dermatological examination to be included in the panel CERCO,
- fit with the criteria defined by the sponsor, for the participation to the study,
- be informed of the objective of the study, the protocol, the planning, the constraints and the risks related to the study, the compensation,
- cooperate, to respect perfectly the protocol,
- have agreed the term and conditions,
- be between 35 and 60 years old
- have deep lines on the chest
- come without any cosmetic product on their chest since at least 1 week.

2.5.2. Criteria for non-inclusion

- Pregnant or nursing mother,
- Volunteer having a skin disease on the application zone,
- Volunteer having a dermatosis on the application zone at T0 that could interfere with the results of the study,
- Volunteer using dermo-pharmaceutical or cosmetic products, differing from the tested product, on the examination zone, during the time of the study,
- Volunteer simultaneously participating to another biomedical study, on the same application zone,
- Volunteer who don't respect the non-inclusion period, during which the volunteer can't participate to any other biomedical research.

2.5.3. Number of volunteers:

5 volunteers were summoned for this study.

2.6. Product tested:

- **Denomination** : La décollette®

- **Packaging**: Newborn support of the chest black and white
Matière : 80%Lycra – 20% Elasthane / Remplissage: 100% Comformel®

- **Quantity** : 5 « Decollette »

3. REGULATIONS, PRIVACY, ADMINISTRATIVE FORMALITIES (PAPERWORKS?)

3.1. Regulations



This is a non-interventional biomedical research do not justify the collection of opinion of a CPP (Committee for Protection of Persons) and AFSSaPS (French Agency for Sanitary Safety of Health Products) as defined by the Law on Public Health No. 2004-806 of 9 August 2004 (Articles 88-97) incorporating provisions for biomedical research, called "Huriet (OJ of 11 August 2004).

3.2. Paperwork

3.2.1. Insurance Underwriting

Insurance to guarantee the civil responsibilities for the volunteers:
Zurich Insurance PLC, Police No. 7 401 508 S

3.2.2. Information and free, informed and express

Consent for participation was given to each volunteer, in order to specify in particular:

- The purpose of the study, its methodology and its duration;
- the possible profits due from the constraints of the study and the foreseeable risks, including in the event of termination of the study before its completion;

Such information could enable the volunteer to sign an informed case, a consent form to participate free, informed and express consent.

3.2.3. Recording and archiving

The original documents, including the final report and all raw data are stored in the archives of CERCO for 6 months.

- A final report is kept 3 years CERCO and sent to:

LEGEAY Ms. Giselle, La Croix des Archers, 56201 LA GACILLY Cedex

- The original documents, report and record the complete product (raw data and records of all tests) are sent and archived at 15 years:

Company IRON MOUNTAIN France
 ZI Les Sables - 6-12 Avenue Descartes 91420 MORANGIS

4. TRACKING and DEVIATIONS

The study has been realised with 5 volunteers.

5. VOLUNTEERS CHARACTERISTICS

<i>CODE</i>	<i>AGE</i>	<i>Chest skin</i>	<i>Characteristics</i>
3414	51	Released	Mean age = 49 years old <u>Released skin = 100%</u>
5860	43	Released	
7474	58	Released	
10551	40	Released	
10376	45	Released	

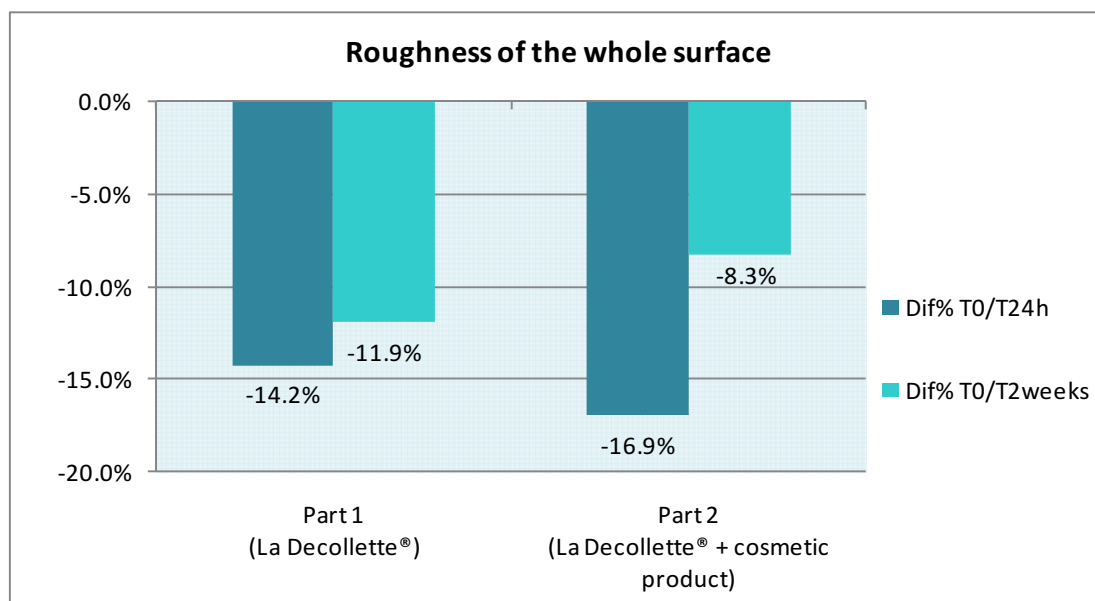
6. RESULTS

6.1. Analysis of the global roughness

Individual values, means and statistics are attached in appendix.

The table and the graph below sum up the main results:

SRx (µm) on the total area	Part 1 (La décollette®)	Part 2 (La décollette® + cream)
T0	20.55	20.91
T24h	17.62	17.37
T2weeks	18.09	19.18
Dif T0/T24h	-2.92	-3.54
Dif% T0/T24h	-14.2%	-16.9%
% of responding volunteers	58%	67%
Dif T0/T2weeks	-2.46	-1.73
Dif% T0/T2weeks	-11.9%	-8.3%
% of responding volunteers	75%	83%

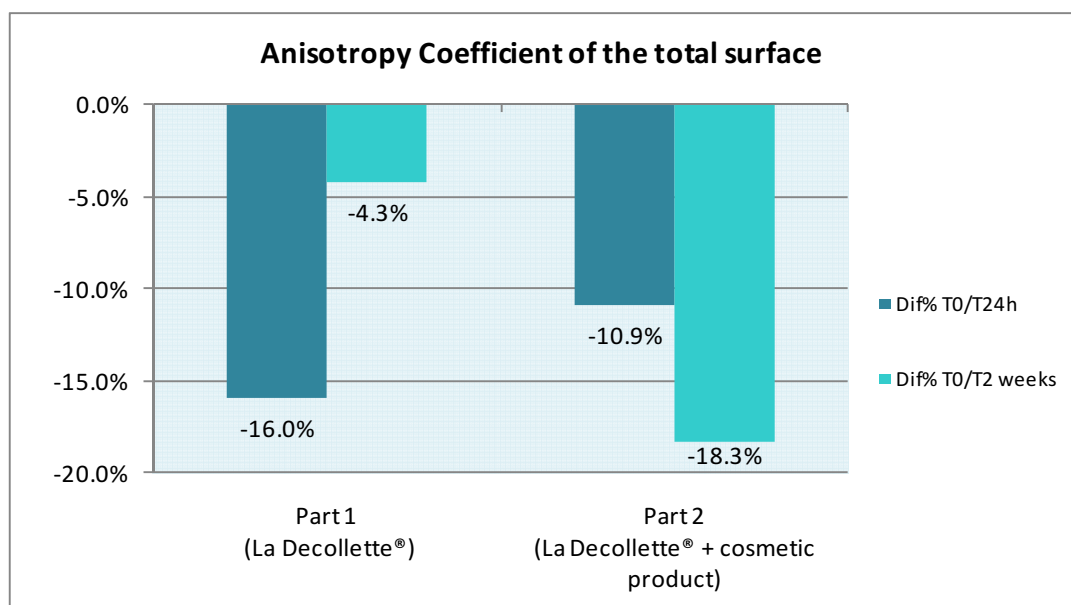


Whatever the treatment (La décollette® alone or La décollette® with a cosmetic product), there is a smoothing effect on the skin relief on the first night of use. This smoothing effect is improved after 15 days of use.

The visual observation also showed a restructuring of the secondary network. The anisotropy rate has then be studied.

6.2. Anisotropy rate analysis

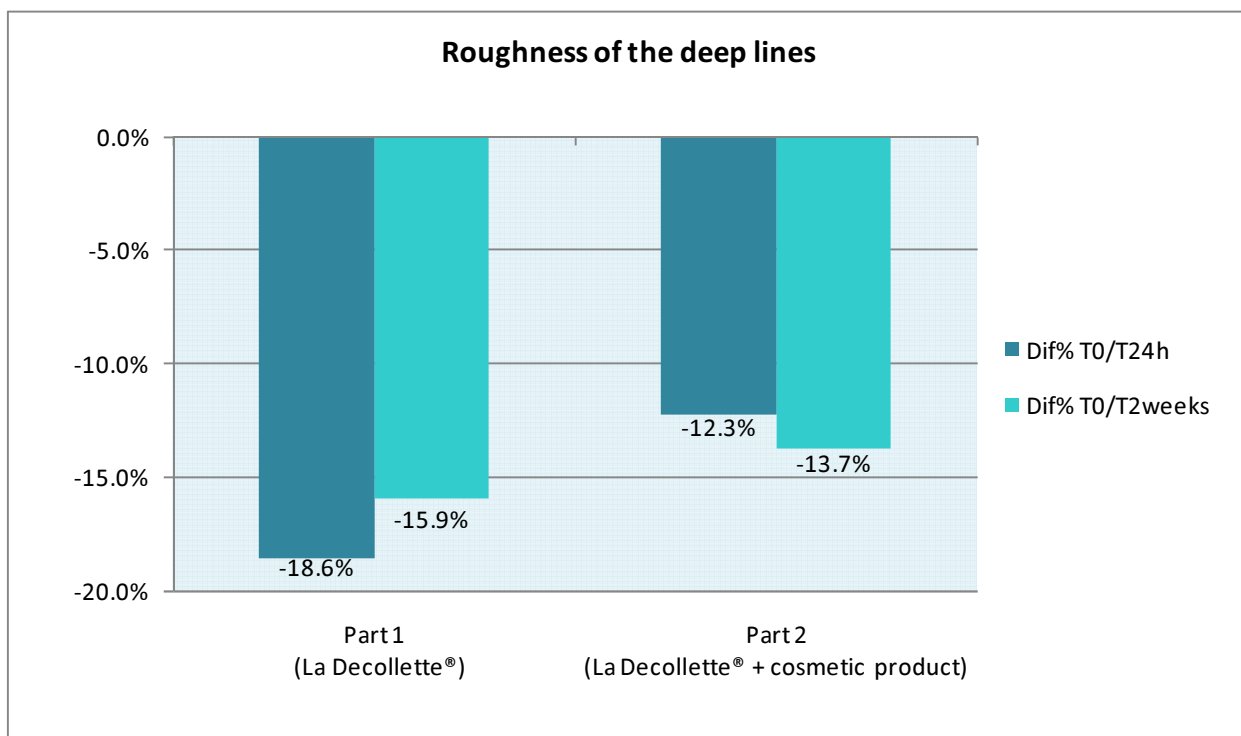
Anisotropy (%) on the total area	Part 1 (La décollette®)	Part 2 (La décollette® + cream)
T0	33.97	25.32
T24h	28.54	22.56
T2weeks	32.53	20.68
Dif T0/T24h	-5.43	-2.76
Dif% T0/T24h	-16.0%	-10.9%
% responding volunteers	60%	53%
Dif T0/T2weeks	-1.45	-4.64
Dif% T0/T2weeks	-4.3%	-18.3%
% responding volunteers	50%	73%



Whatever the treatment (La décollette® alone or La décollette® with a cosmetic product), there is a restructuration of the skin relief on the first night of use. This restructuration is improved after 15 days of use with cosmetic product.

6.3. Analysis of the deeper lines

SRx (µm) Deep lines	Part 1 (La décollette®)	Part 2 (La décollette® + cream)
T0	21.42	20.92
T24h	17.45	18.35
T2weeks	18.01	18.04
Dif T0/T24h	-3.98	-2.57
Dif% T0/T24h	-18.6%	-12.3%
% responding volunteers	80%	80%
Dif T0/T2weeks	-3.41	-2.87
Dif% T0/T2weeks	-15.9%	-13.7%
% responding volunteers	60%	80%



Whatever the treatment (La décollette® alone or La décollette® with a cosmetic product), there is a smoothing effect of the deeper lines of the chest on the first night of use. This smoothing effect persists after 15 days of use.

7. CONCLUSION

In the study conditions, on the first night using la décollette® alone or la décollette® associated with a cosmetic product, there is a smoothing effect and a restructuration of the skin relief, and a smoothing effect on the deep lines of the chest ; the same effect is observed after 15 days of use.

Using la décollette® leads to a smoothing effect and a restructuration of the skin relief, and a smoothing effect on the deep lines of the chest.

In Paris,

V.COUTURAUD

Investigator

Pharmacist – MD

Master Degree of Cutaneous Biology and Cosmetology

D.GAUTIER

Study Manager

Technician

8. BIBLIOGRAPHY

1. HashimotoK., Kanzaki T., Surface ultrastructure of human skin, Acta dermatovenerologica, 1975, 55, 413-430.
2. Escande, Tisnes, Wiszniak, Evaluation du RmD en fonction du vieillissement, Conférence de Lyon, 1981.
3. J.M. Lagarde, C. Rouvrais, D. Black, S. Diridollou et Y.Gall "Validation Technique d'une méthode de mesure du relief cutané par projection de frange d'interférence " Centre Jean Louis Alibert, Institut de recherche Pierre Fabre, Toulouse, France.

QUALITY CONTROL

This clinical trial has been conducted in compliance with the Good Laboratory Practices* and the Good Clinical Practices**, the approved procedures and protocols of the CERCO.

The audit of the clinical trials is intended to ensure that all steps of a study are controlled, according to a planning defined by the Quality manager:

Audit	Audits dates	Inspected Phase	Report to Investigator	Report to Direction
Internal audit	21/11/2003	Efficacy Process	11/12/2003	11/12/2003
Internal audit	12/12/2003	Tolerance Process	19/12/2003	19/12/2003
Internal audit	28/01/2004	Metrology	16/02/2004	16/02/2004
Internal audit	08-09/04/2004	CERCO	27/04/2004	27/04/2004
Certification	07-08/07/2004	CERCO	12/07/2004	12/07/2004
Internal audit	06/12/2004	Metrology	02/03/2005	02/03/2005
Follow-up of the certification	13/06/2005	CERCO	14/06/2005	14/06/2005
Internal audit	23/11/2005	Quality Management System	01/12/2005	01/12/2005
Internal audit	02/06/2006 08/06/2006	Efficacy tests: planning Tolerance tests: reorganisation	09/06/2006	09/06/2006
Follow-up of the certification	16/06/2006	CERCO	19/06/2006	19/06/2006
Internal audit	21/11/2003	Efficacy Process	11/12/2003	11/12/2003
Internal audit	14/02/2007	CERCO	07/03/2007	07/03/2007
Renewal of the certification	08-09/03/2007	CERCO	11/03/2007	11/03/2007
Internal audit	13/11/2007	CERCO: regulatory compliance	11/12/2007	11/12/2007
Internal audit	30/11/2007	Beauty care activity	06/12/2007	06/12/2007
Internal audit	05/12/2007	Non-conformities procedure	06/03/2008	06/03/2008
Internal audit	17/12/2007	Efficacy tests: time	04/01/2008	04/01/2008
Follow-up of the certification	12/06/2008	CERCO	18/07/2008	18/07/2008
Internal audit	23/06/2009	CERCO: Effectiveness of actions	25/06/2009	25/06/2009
Follow-up of the certification	21/07/2009	CERCO	22/07/2009	22/07/2009
Internal audit	20/05/2010	CERCO	04/06/2010	04/06/2010
Internal audit	27/05/2010	Metrology exerise – validation	07/06/2010	07/06/2010
Certification	28-29/06/2010	CERCO	07/07/2010	07/07/2010

This report has been checked by the CERCO Quality controller. It is a faithful report of the procedures and also an accurate report of the original data of the study.

Name, date and signature of the Quality controller:

* Cosmetic GLP published in the "Journal Officiel JORF – BPL cosmétiques – Arrêté du 10 août 2004"

** GCP published in the "Bulletin Officiel du Ministère des affaires sociales et de l'emploi et Ministère chargé de la Santé et de la famille – France – BPC – Avis aux promoteurs et aux investigateurs pour les essais cliniques des médicaments – 1987"

A P P E N D I X

La Décollette®

Roughness analysis – SRx (µm)
Individual values

No filter

rmd SRx			PART 1						
			T0	T24h	T2weeks	Différence T0 /T24h		Différence T0 /T2weeks	
n°	Aera	Code	Roughness (µm)	Roughness (µm)	Roughness (µm)	SR abs (µm)	SR %	SR abs (µm)	SR %
1	d1	3414	21.42	12.32	17.10	-9.09	-42.5%	-4.31	-20.1%
	d2		20.71	19.65	11.68	-1.06	-5.1%	-9.03	-43.6%
	d3		16.92	15.14	9.80	-1.78	-10.5%	-7.12	-42.1%
2	g1	5860	21.59	22.06	26.90	0.47	2.2%	5.31	24.6%
	g2		17.56	18.77	23.27	1.21	6.9%	5.70	32.5%
	g3		24.03	26.55	30.30	2.52	10.5%	6.27	26.1%
3	d1	7474	13.95	15.33	12.26	1.38	9.9%	-1.69	-12.1%
	g2		12.81	10.78	12.38	-2.04	-15.9%	-0.43	-3.4%
	g3		18.34	16.80	18.14	-1.55	-8.4%	-0.20	-1.1%
4	d1	10376	19.46	21.23	13.02	1.77	9.1%	-6.44	-33.1%
	g3		13.47	12.57	11.85	-0.90	-6.7%	-1.62	-12.0%
	g4		18.31	13.42	13.35	-4.88	-26.7%	-4.95	-27.1%
5	d1	10551	30.81	19.88	24.26	-10.94	-35.5%	-6.55	-21.3%
	g1		30.95	24.18	27.90	-6.77	-21.9%	-3.05	-9.8%
	g2		27.85	15.67	19.15	-12.18	-43.7%	-8.71	-31.3%
Mean			20.55	17.62	18.09	-2.92	-14.2%	-2.46	-11.9%
Standard deviation			5.8	4.6	6.8	4.8		5.1	

NB : 5860 -> volunteer with an important restructuring.

rmd SRx			PART 2						
			T0	T24h	T2weeks	Différence T0 /T24h		Différence T0 /T2weeks	
n°	Aera	Code	Roughness (µm)	Roughness (µm)	Roughness (µm)	SR abs (µm)	SR %	SR abs (µm)	SR %
1	d1	3414	17.46	16.81	15.54	-0.65	-3.7%	-1.92	-11.0%
	d2		17.76	16.17	16.81	-1.59	-9.0%	-0.95	-5.4%
	d3		14.21	14.66	11.10	0.45	3.2%	-3.11	-21.9%
2	g1	5860	27.00	20.63	22.70	-6.37	-23.6%	-4.30	-15.9%
	g2		19.66	17.81	18.91	-1.84	-9.4%	-0.74	-3.8%
	g3		28.93	22.92	25.72	-6.01	-20.8%	-3.20	-11.1%
3	d1	7474	12.87	13.26	13.63	0.39	3.0%	0.76	5.9%
	g2		13.72	13.79	16.62	0.06	0.5%	2.90	21.1%
	g3		17.68	18.72	15.78	1.04	5.9%	-1.90	-10.7%
4	d1	10376	23.00	15.89	13.11	-7.11	-30.9%	-9.89	-43.0%
	g3		19.10	15.23	13.13	-3.87	-20.2%	-5.97	-31.3%
	g4		19.47	16.62	17.74	-2.85	-14.6%	-1.73	-8.9%
5	d1	10551	30.97	19.45	30.81	-11.52	-37.2%	-0.15	-0.5%
	g1		29.16	22.16	32.97	-7.00	-24.0%	3.81	13.1%
	g2		22.68	16.40	23.18	-6.27	-27.7%	0.51	2.2%
Mean			20.91	17.37	19.18	-3.54	-16.9%	-1.73	-8.3%
Standard deviation			5.8	2.9	6.6	3.7		3.4	

La Décollette®

Roughness analysis – **Anisotropy**

Individual values

Filter 0.8

Anisotropy			PART 1						
			T0	T24h	T2weeks	Différence T0 /T24h		Différence T0 /T2weeks	
n°	Aera	Code	Anisotropy	Anisotropy	Anisotropy	SR abs (µm)	SR %	SR abs (µm)	SR %
1	d1	3414	45.86	52.94	60.11	7.08	15.4%	14.25	31.1%
	d2		va	va	va	va	va	va	va
	d3		58.06	44.88	54.42	-13.18	-22.7%	-3.64	-6.3%
2	g1	5860	32.73	11.55	26.93	-21.18	-64.7%	-5.81	-17.7%
	g2		40.15	23.65	34.29	-16.50	-41.1%	-5.86	-14.6%
	g3		34.67	14.39	19.91	-20.28	-58.5%	-14.76	-42.6%
3	d1	7474	19.64	16.38	17.60	-3.26	-16.6%	-2.04	-10.4%
	g2		va	va	va	va	va	va	va
	g3		va	va	va	va	va	va	va
4	d1	10376	33.35	31.98	33.57	-1.37	-4.1%	0.22	0.7%
	g3		21.30	21.55	21.72	0.25	1.2%	0.42	2.0%
	g4		32.31	32.66	32.55	0.34	1.1%	0.23	0.7%
5	d1	10551	va	va	va	va	va	va	va
	g1		21.66	35.45	24.18	13.78	63.6%	2.52	11.6%
	g2		va	va	va	va	va	va	va
Mean			33.97	28.54	32.53	-5.43	-16.0%	-1.45	-4.3%
Standard deviation			11.9	13.5	14.3	11.8		7.4	

va : aberrant value

Anisotropy			PART 2						
			T0	T24h	T2weeks	Différence T0 /T24h		Différence T0 /T2weeks	
n°	Aera	Code	Anisotropy	Anisotropy	Anisotropy	SR abs (µm)	SR %	SR abs (µm)	SR %
1	d1	3414	26.38	16.64	21.04	-9.74	-36.9%	-5.34	-20.3%
	d2		32.56	12.99	24.17	-19.57	-60.1%	-8.39	-25.8%
	d3		30.40	25.10	22.68	-5.30	-17.4%	-7.71	-25.4%
2	g1	5860	22.58	14.20	20.54	-8.38	-37.1%	-2.04	-9.0%
	g2		39.90	32.68	24.47	-7.22	-18.1%	-15.43	-38.7%
	g3		17.49	8.08	15.53	-9.41	-53.8%	-1.96	-11.2%
3	d1	7474	12.41	14.71	16.65	2.29	18.5%	4.24	34.1%
	g2		39.09	10.39	9.24	-28.69	-73.4%	-29.85	-76.4%
	g3		17.55	6.93	23.08	-10.61	-60.5%	5.54	31.6%
4	d1	10376	18.13	21.83	32.67	3.70	20.4%	14.55	80.3%
	g3		21.09	21.49	12.62	0.41	1.9%	-8.47	-40.2%
	g4		15.92	24.47	32.08	8.54	53.7%	16.16	101.5%
5	d1	10551	32.51	40.70	14.21	8.20	25.2%	-18.30	-56.3%
	g1		27.39	40.71	20.86	13.32	48.6%	-6.54	-23.9%
	g2		26.48	47.50	20.36	21.02	79.4%	-6.12	-23.1%
Mean			25.32	22.56	20.68	-2.76	-10.9%	-4.64	-18.3%
Standard deviation			8.4	12.7	6.5	12.9		11.9	

La Décollette®

Roughness of deep lines analysis – SRx (µm)
Individual values

No filter

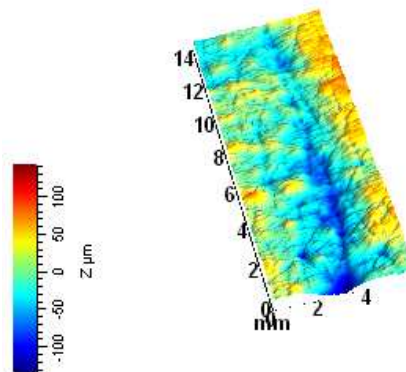
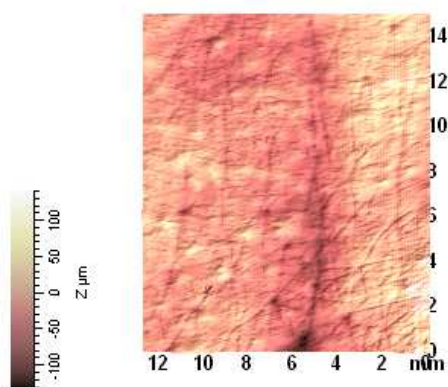
		Part 1						
		T0	T1	T2	Différence T0 /T1		Différence T0 /T2	
n°	Code	Roughness (en µm)	Roughness (en µm)	Roughness (en µm)	SR abs (µm)	SR %	SR abs (µm)	SR %
1	10376-G4	16.19	10.89	10.85	-5.30	-32.8%	-5.35	-33.0%
2	3414-D3	19.71	14.01	8.64	-5.70	-28.9%	-11.07	-56.2%
3	5860-G3	26.93	26.42	30.06	-0.50	-1.9%	3.13	11.6%
4	7474-G1	11.27	12.16	11.47	0.89	7.9%	0.20	1.8%
5	10551-G1	33.01	23.75	29.06	-9.26	-28.0%	-3.95	-12.0%
Mean		21.42	17.45	18.01	-3.98	-18.6%	-3.41	-15.9%
Standard deviation		8.6	7.1	10.6	4.1		5.4	

		Part 2						
		T3	T4	T5	Différence T3 /T4		Différence T3 /T5	
n°	Code	Roughness (en µm)	Roughness (en µm)	Roughness (en µm)	SR abs (µm)	SR %	SR abs (µm)	SR %
1	10376-G4	16.90	13.65	13.80	-3.24	-19.2%	-3.09	-18.3%
2	3414-D3	15.82	13.85	12.54	-1.97	-12.5%	-3.28	-20.7%
3	5860-G3	30.65	26.76	25.31	-3.89	-12.7%	-5.33	-17.4%
4	7474-G1	10.00	10.72	11.66	0.72	7.2%	1.66	16.6%
5	10551-G1	31.22	26.76	26.90	-4.46	-14.3%	-4.32	-13.8%
Mean		20.92	18.35	18.04	-2.57	-12.3%	-2.87	-13.7%
Standard deviation		9.5	7.8	7.4	2.1		2.7	

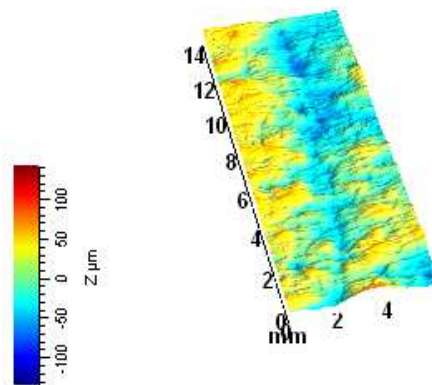
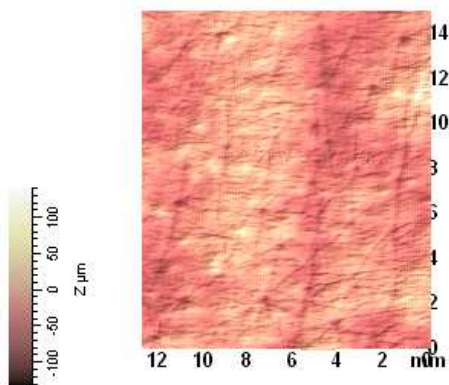
La Décollette®

Illustration of the smoothing effect

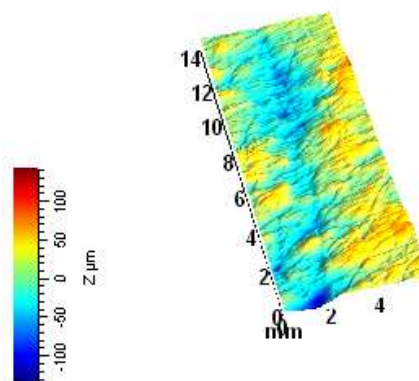
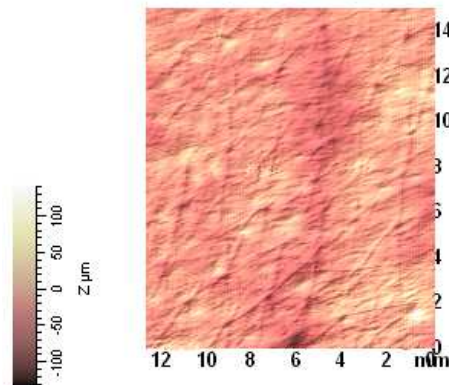
Volunteer 10376 – Zone G4 – Part 1 : Décollette® only
T0



T24h



T15days



SRx
SRx of the lines

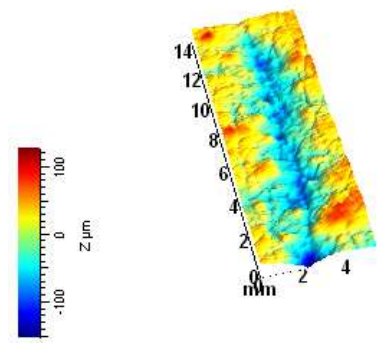
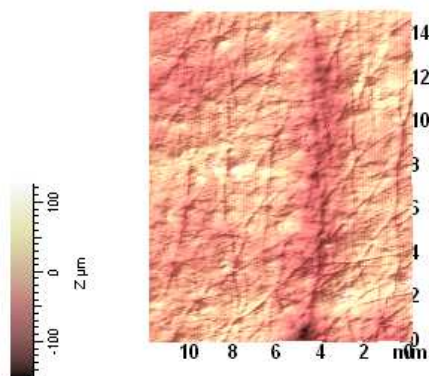
T24h : -27%
T24h : -33%

T15days = -27%
T15days = -33%

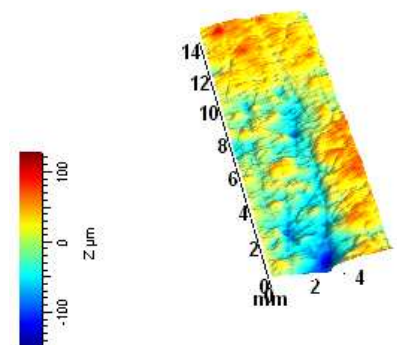
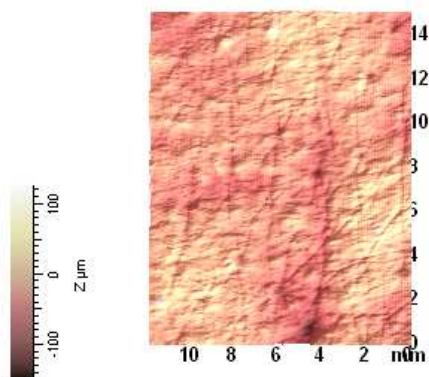
La Décollette®

Illustration of the smoothing effect

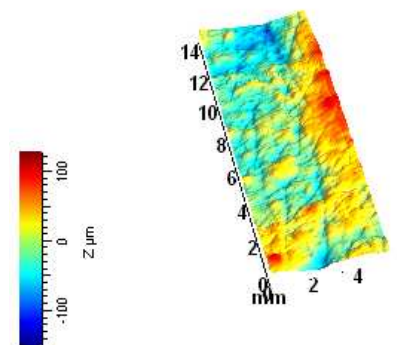
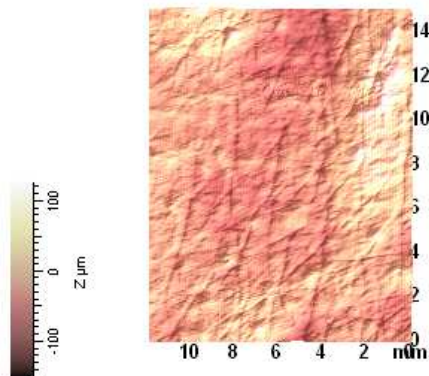
Volunteer 10376 – Zone G4 – Part 2 : Décollette® + cosmetic product
T0



T24h



T15days



SRx
SRx of the lines

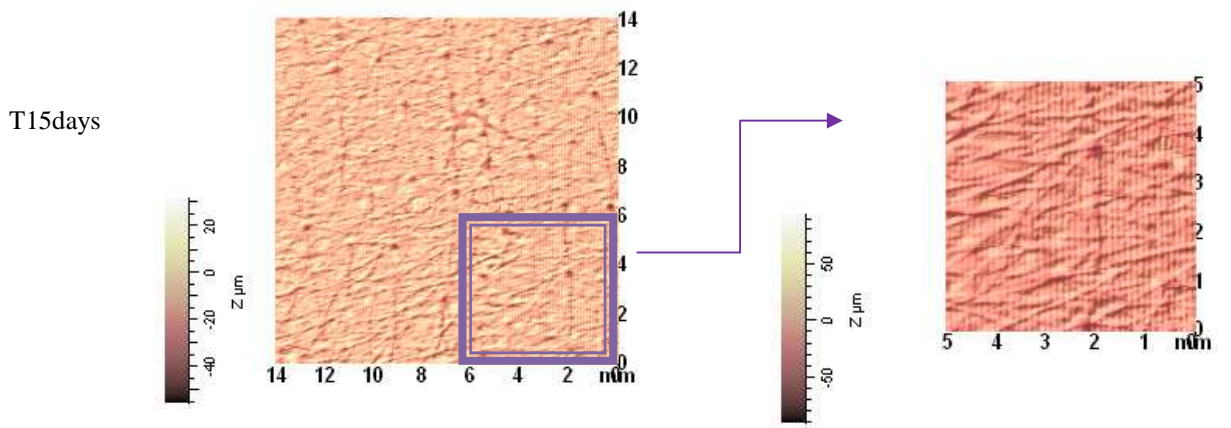
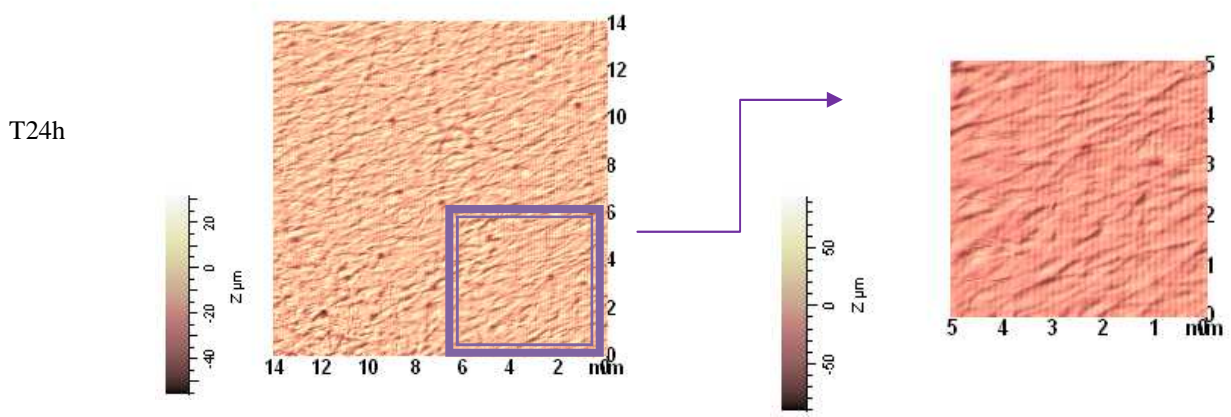
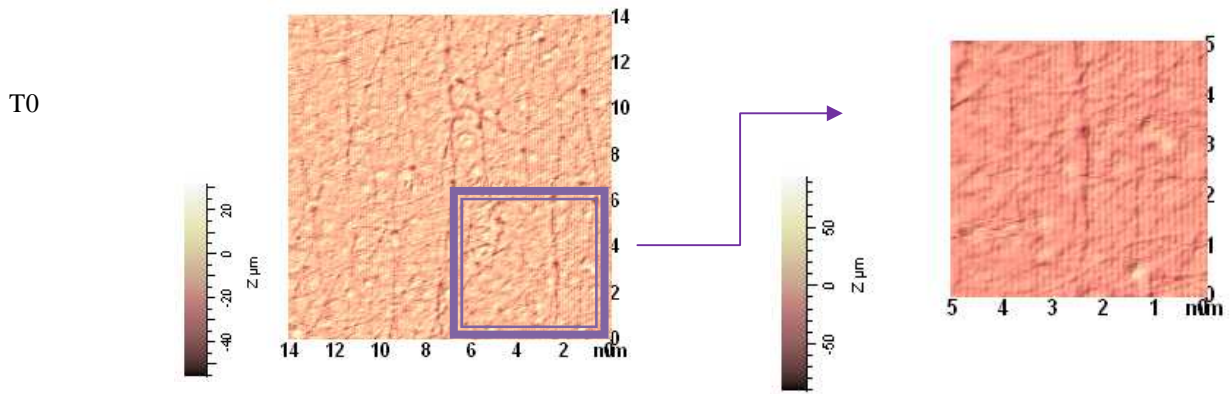
T24h : -15%
T24h : -19%

T15 days = -9%
T15 days = -18%

La Décollette®

Illustration of the restructuring

Volunteer 7474 – Zone G2 – Part 1 : Décollette® only



Anisotropy

T24h : -17%

T15 days = -10%

La Décollette®

Illustration pictures

Decollette® only

Decollette® + cosmetic product

Volunteer 10376

T0



10376p1T0.jpg



10376p2T0.jpg

T24h



10376p1T1.jpg

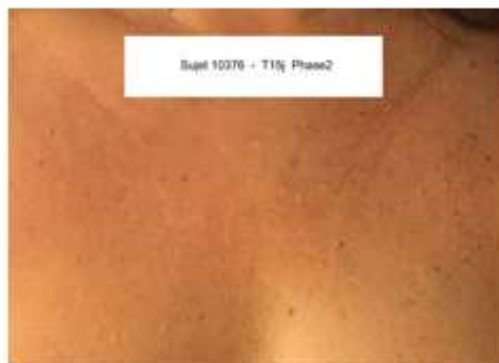


10376p2T1.jpg

T15days



10376p1T2.jpg



10376p2T2.jpg

La Décollette®

Comments – Part 1 : La Décollette® only

PART 1				
		After 24h Part 1		After 15 days
n°	Code	How did you sleep the first night?	Comments	Comments
1	10376	Slept well, has forgotten La Decollette. Keeps warm. First, sensation of oppression.	Keep warm. It remember me his breast surgery.	Fewer folds in the morning. She doesn't see anymore its 3 large wrinkles on the neck in the morning. Smoother and softer skin. Likes it and want to wear it all the day. No discomfort.
2	5860	Slept well, no discomfort.	No difficult to wear. Don't feel it, the volunteer has forgotten it during sleep. Keep a little bbit warm.	Make La Decollette a little less thick, <i>inflated effect</i> under the pajamas.
3	7474	Does not hurt, sweet. The volunteer felt a little discomfort, woke up several times. Usually leeps on the side but instead she slept on the back with La Decollette.	Nice material, no discomfort. May be difficult to wear in summer.	La Decollette avoid the neck to damaged more. Can't work without cosmetic product. Requires to sleep on the back. Keep warm, could not be used in summer. Let redness due to the heat in " <i>cushions</i> " in contact with the skin.
4	10138	Slept well, no discomfort. Thinks she can use it all the year. She slept on the side without discomfort, as usual.	Voluminous cushion. Effect on the middle of the chest but less on the sides : will tighten it.	The cushion should be wider. No discomfort with heat.
5	3414	Slept well, no discomfort.	Nice to wear, the straps don't hurt. May sweat this summer.	Difficult to wear in summer, sweating.
6	8249	Slept well but she felt the bra and woke up several times. Not bad, keeps warm, no discomfort. Don't thinks she can use it in summer.	Very nice material. Very sweet. No discomfort under the breasts.	Comfortable, sweet, don't feel the straps. Difficult in summer, maybe too warm. Softer and tighter skin.
7	9756	No discomfort to sleep. Sleeps more on the back. Very sweet, no discomfort. Comfortable.	Difficult to wear if we live in couple. Very comfortable material. Not convinced of the efficacy, the support is too light.	Don't see efficacy, therefore would not wear it all year. Thinks that cosmetic products are more efficient. Very soft, don't keep warm, think she can wear it in summer. Very comfortable.
8	7352	No discomfort, the volunteers thought she will feel it more. Thinks it is difficult to wear in summer.	-	Constraints : nudist volunteer, used to sleep nude : discomfort.

La Décollette®

Comments – Part 2 : La Décollette® + cosmetic product

PART 2		After 24h Part 2		After 15 days
n°	Code	How did you sleep the first night?	Comments	Comments
1	10386	I slept very well, a little bit hot	Good penetration of the cosmetic product. Very nice.	A little bit difficult to wear when it's very hot. <i>It sweat a lot</i> . Find the system ugly.
2	5860	I slept well	Good penetration, not oily, I like the gel texture, easy to use, no sticky effect with la Décollette	Not sticky if the cosmetic product is applicated 10 minutes before wearing La Décollette. <i>Not more</i> embarrassed with the heat.
3	7474	No discomfort. Not sticky. Good penetration of the cosmetic product.	May be difficult to wear in summer (still possible in mid-May 2010)	Good penetration, light, not sticky. La Décollette keeps warm. Discomfort during sleep because of its volume : tend to sleep more on the back.
4	10138	-	-	-
5	3414	No discomfort. Not sticky with the cosmetic product. I already know the cosmetic product and like it.	Cream with powdered effect, not sticky. Wrinkles are " <i>floutées</i> ", smoothing effect for wrinkles and skin.	Smoother skin, softer. Application of the cosmetic product 1 hour before sleeping to avoid the sticky effect.
6	8249	No part 2		
7	9756	No part 2		
8	7352	No part 2		

EVALUATION OF THE EFFECT ON THE SKIN RELIEF
BY FRINGE PROJECTION
AFTER USE OF LA DECOLLETTE®

✦ **OBJECTIVE:**

Evaluation of the skin relief variations with biometrological measurement by fringe projection, in a first part using **la Decollette®** alone, then in a second part with **la Decollette®** in association with a cosmetic product for neck and chest.

✦ **MATERIAL :**

- Fringe projection Dermatop® - Eotech
- Toposurf software

✦ **PROTOCOL :**

- Number of volunteers: 5
- Volunteers characteristics: with deep lines on the chest, between 35 and 60 years old, without cosmetic product on their chest since at least 1 week
- Measurement zone : chest
- Times of measurement : T0 – T24h – T15days
- Application protocol :

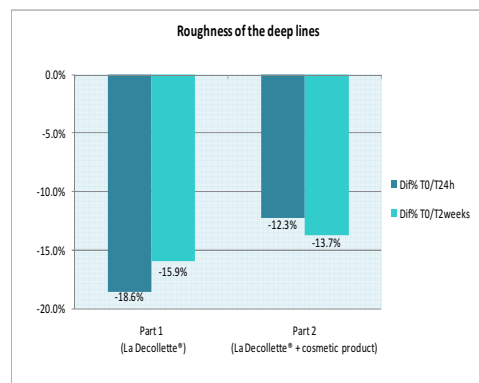
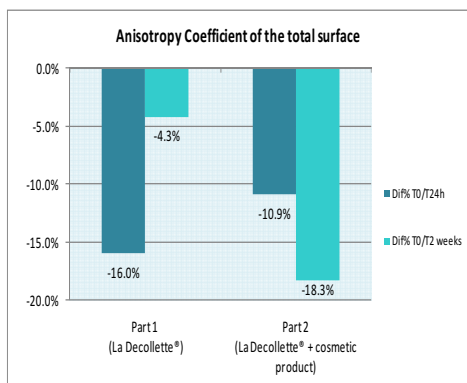
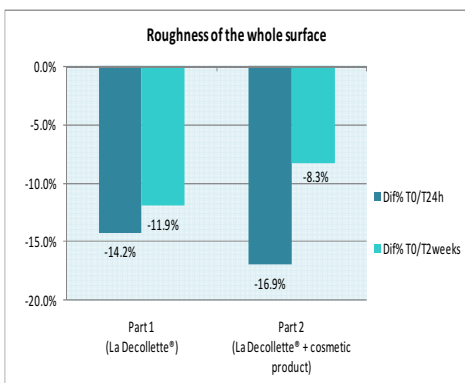
part 1 = use of la Decollette® every night during 15 days.

Part 2 = application of the cosmetic product for neck and chest, then use of la Decollette® every night during 15 days

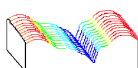
✦ **RESULTS AND CONCLUSION :**

In the study conditions, on the first night using la décollette® alone or la décollette® associated with a cosmetic product, there is a smoothing effect and a restructuration of the skin relief, and a smoothing effect on the deep lines of the chest ; the same effect is observed after 15 days of use.

Using la décollette® leads to a smoothing effect and a restructuration of the skin relief, and a smoothing effect on the deep lines of the chest.



C.E.R.C.O.



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