

Assessment of an activity of a BB cream on a panel of volunteers

STUDY 17E3766

Quote D17-168-1

Quote D17-168-1A

Study performed on:

 20 Caucasian women

 Reference :

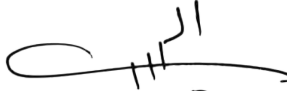


BB Cream « Le Privilège » Base Traitante

Batch : 101113706D

 Over 7 days

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STUDY 17E3766	
QUOTE D17-168-1 QUOTE D17-168-1A	
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Summary of the study

▪ **TITLE:**

Assessment of an activity of a BB cream on a panel of volunteers

▪ **AIM OF THE STUDY:**

The aim of the study is to assess on a panel of 20 volunteers aged between 20 to 60 years old, the efficacy of a BB cream on redness after a use of 1 week with a sun exposure during one hour per day.

This efficacy will be measured through:

- Face photography by VISIA®
- Self assessment questionnaire

The various measurements were recorded during a first visit at T0 and at T+7 days after a daily application on face.

The second objective is to assess the moisturizing activity of a BB cream after a use of one week.

This efficacy will be measured through:

- Moisturizing assessment by Corneometer®

The various measurements were recorded during a first visit at T0, at T+30 minutes and finally at T+7 days after a twice daily application on forearm.

▪ **PROGRESS OF THE STUDY:**

20 women, aged between 20 to 60 years old, meeting the inclusion and non-inclusion criteria defined by the promoter were included in the study.

▪ **RESULTS AND CONCLUSION:**

The aim of the study was to assess on a panel of 20 volunteers, the efficacy of a BB cream on redness after a use of 1 week with a sun exposure during one hour per day.

Immediately after application, the BB cream “Le privilège” Base traitante decreases significantly the redness on face. After 7 days of application and despite a daily exposure of one hour in the sun, the BB cream “Le privilège” Base traitante allowed a reduction in redness.

The second objective was to assess the moisturizing activity of a BB cream on forearm after a twice daily use during one week.

The BB cream “Le privilège” Base traitante has a significant and immediate moisturizing effect. The significant increase of moisturizing after 7 days of application, allows us to conclude that the BB cream “Le privilège” Base traitante has a very good moisturizing power.

1 AIM OF THE STUDY

The aim of the study is to assess on a panel of 20 volunteers aged between 20 to 60 years old, the efficacy of a BB cream on redness after a use of 1 week with a sun exposure during one hour per day.

This efficacy will be measured through:

- Face photography by VISIA®
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The various measurements were recorded during a first visit at T0 and at T+7 days after a daily application on face.

The second objective is to assess the moisturizing activity of a BB cream after a use of one week.

This efficacy will be measured through:

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The various measurements were recorded during a first visit at T0, at T+30 minutes and finally at T+7 days after a twice daily application on forearm.

2 EXPERIMENTAL DESIGN

2.1 Study design

The efficacy of a BB cream was assessed on 20 women meeting the inclusion and non-inclusion criteria previously defined by the promoter. The measurements were taken in a controlled-atmosphere room ($22^{\circ}\text{C} \pm 2^{\circ}\text{C}$), after stabilization of the volunteers for at least 10 minutes.

The volunteers used the product from T0 to T+7 days, according to promoter's recommendations.

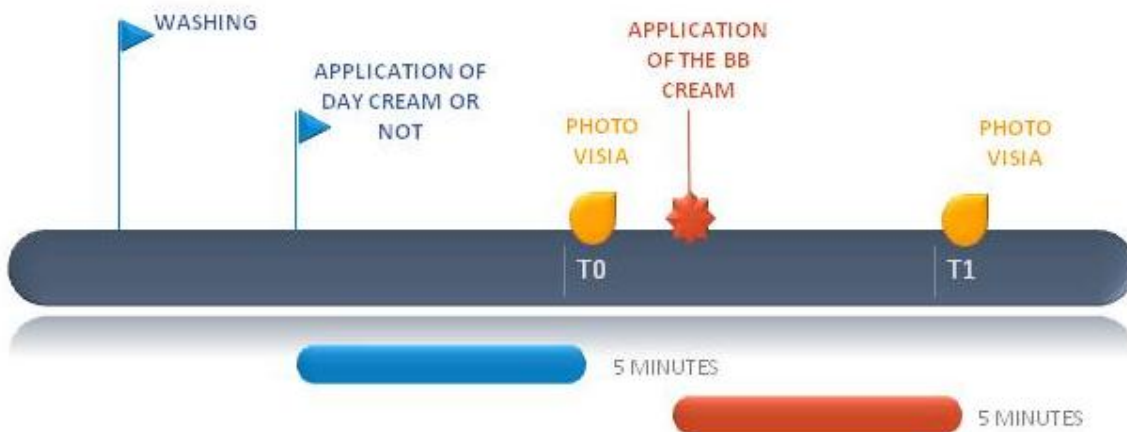
Each volunteer was asked to notify Laboratory BIO-EC of any discomfort or undesirable event that would occur. They did not stop or change the frequency of application without prior notice.

During each visit, assessments were done using the same method.

2.2 Volunteers selection and method

Recruitment (Week 15): Women having between 20 to 60 years old with a phototype II.

- **First visit at T0** : (Week 17), the technician in charge of the study:
 - Makes stabilize the volunteer on a control-atmosphere room during 10 minutes,
 - Checks out of the criteria of inclusion and non-inclusion,
 - Checks out of the well understanding of the study,
 - Signing of the agreement by the volunteers,
 - Makes initial biometrical measurements on face :
 - VISIA photography



- Makes initial biometrical measurements on forearm :
 - Corneometer®
- Applies the BB cream at the rate 2mg/cm² on the forearm
- **Visit at T+30min** : (Week 17), the technician in charge of the study:
 - Records adverse events,
 - Makes biometrical measurements on forearm:
 - Corneometer®
 - Gives to volunteers tested product and the self assessment questionnaire.

From T0 to T+7 days: Volunteers apply the BB cream on the forearm twice a day. Volunteers apply daily the product on face after their day cream. They will be 1h per day under sun.

- **Final visit at T+7 days** : (Week 18), the technician in charge of the study:
 - Makes stabilize the volunteer on a control-atmosphere room during 10 minutes,
 - Records adverse events,
 - Makes biometrical measurements on face :
 - VISIA photography
 - Makes biometrical measurements on forearm :
 - Corneometer®
 - Retrieves study product and self assessment questionnaire.
 - Gives compensation to volunteer.

3 VOLUNTEERS

3.1 Inclusion and non-inclusion criteria

3.1.1 Inclusion criteria

- Caucasian women
- Having between 20 to 60 years old,
- With a phototype II,
- Having a sensitive skin with UV
- Having not applied any creams on the studied zone during 1 week

The volunteers should commit themselves to:

- Use the product in conformity with the recommendation use
- Not using any other product on the studied zone
- Can be 1h in the sun per day during one week

3.1.2 Non-inclusion criteria

- Pregnancy or breast feeding women,
- Persons having dermatological problems and/or know allergy to cosmetic products.
- Persons under medical treatment potentially capable of influencing the measured parameters

3.2 Volunteers included in the study

Overall, 20 Caucasians women meeting the inclusion and non-inclusion criteria defined in the protocol were included in the study. They were informed of the possible adverse effects from using the product and the technical conditions in which the assessment is performed. They willingly signed the consent form which was written in compliance with the Declaration of Helsinki and the December 20th, 1988 act of the Code de la Santé Publique.

3.2.1 Demographic characteristics

The demographic characteristics of the volunteer group (mean \pm SD) are as follows:

BB Cream « Le Privilège » Base Traitante Batch : 101113706D	N = 20 women
	Age : 41 \pm 9 years old

3.2.2 Schedule compliance

No volunteer left the study prematurely. All volunteers returned for their appointments.

3.2.3 Concomitant treatments

The volunteers included in the study did not take any concurrent treatment likely to induce a modification of the cutaneous state.

4 PRODUCTS

4.1 Study product

The product was identified as:

**BB Cream « Le Privilège » Base Traitante
Batch : 101113706D**

The product was a beige cream packed by the promoter in vials.

4.2 Product use

Products were dispatched to volunteers at T0. Volunteers apply twice a day, the product on the forearm. Volunteers apply daily the product on face after their day cream. They will be 1h per day under sun. The amount of product to be applied was left to the volunteers by their cosmetic habits. Any remarks were noted during the final appointment.

5 METHODS

5.1 Photographies by VISIA®

With VISIA® 6th generation, numeric photographies were performed at T0, T7 days.

- 3 types of photos are taken:
 - Right profile
 - Left Profile
 - Face
- Different parameters can be analysed with the VISIA®: Spots, Wrinkles, Texture, Pores, UV Spots, Brown spots, Red areas and Porphyrines.
- The VISIA® gives 3 types of results :
 - The Lineaments Count gives a count of the number of lesions evaluate by the dispositive, with no concern of the size or the lesion intensity. The lineaments count can be used to see a treatment progress when the decrease of the lesions number for one or many skin features.
 - The Absolute Grades give a complete and comprehensive measure of the lesion impact on the subject skin. They totally consider the size, the surface and the analysed lesions intensity. The absolute grade can also be used to detect a treatment improvement when the lesion size and intensity are the most appropriate to evaluate the treatment efficacy.
 - The Centiles gives a context in which the subject results analysis are compared to the Absolute grades of other subjects who have similar characteristics. Centiles can also be used to give a comparative assessment of the subject's general state.

5.2 Assessment of the cutaneous hydration through Corneometer®

The stratum corneum hydration causes changing in its electrical characteristics. The stratum corneum is like a dielectric corps. Any modifications of its hydration statement cause a variation of the electric capacity measured by a condenser. Higher is the hydration, higher is the electric capacity because its dipolar nature increases the electric permittivity of the environment and its conductivity.

Measurement is realized by the Corneometer CM825TM (Courage & Khazaka electronics). The probe linked to a condenser allows applying at all the time the same pressure on the tegument in order to not disturb the measures and to obtain good experimental conditions reproducibility.

5.3 Self assessment questionnaire

Assessment of the sensation felt, efficacy and cosmetic quality of the product was performed through a self-assessment questionnaire completed on Eval&Go by volunteers after 21 days of product application and after 42 days of product application.

Eval & GO is a SaaS application of feedback management. It permits to create On-line surveys, to publish them by link or by email, to collect the answers and analyze the results in real time. Access to the service is via an internet connection and a recent web browser (Internet Explorer 9+, Chrome, Safari, Firefox). It is on the basis of subscriptions without no installation on computers. Any use of Eval & GO software or services is subject to the terms and conditions.

6 RESULTS

6.1 Atmospheric conditions around Paris

Maximal and minimal temperatures around Paris during the study were:

- April (T0 and T+30 min): 3.2 °C to 19.9°C
- May (T+7 days): 7.4°C to 18.8°C

6.2 Statistical method

The basic statistical parameters (mean and standard deviation) were calculated for each data point and recorded. Then, the assessment of the overall effect of the test product was made by calculating the variation of percentage compared to the initial measurement.

In order to determine whether the identified changes were significant or not, a Student's t-test was performed. The statistical analysis (through Prism v5.04 software by GraphPad) was made with Student's t-test on paired samples. The assumptions were the randomness and normal distribution of the samples.

6.3 Protocol deviation

All inclusion and evaluation criterion were respected.

6.4 Undesirable events

No adverse effects occurred during the study.

6.5 Results of redness areas by VISIA®

6.5.1 Immediate results after application of BB cream

Means of redness areas parameter for the global population are gathered in the table below. Individual values for each volunteer are presented in the appendixes.

	Values		Delta of variation T1	% of variation T1	% of responders
	T0	T1			
DAY CREAM only	0,36 ± 0,08	0,35 ± 0,09	-0,01 ± 0,03	-2%	40%
	# Significant p<0.1	* Significant p<0.05	**Significant p<0.01	***Significant p<0.001	

10 minutes after application of the day cream, we can observe:

→ A non significant improvement by **2%** of redness areas (p=0.3097)

→ **We can conclude that the day cream has no influence on the redness over time.**

	Values		Delta of variation T1	% of variation T1	% of responders
	T0	T1			
Day cream + BB CREAM	0,38 ± 0,08	0,32 ± 0,08	-0,06 ± 0,04	-15 %***	100%
	# Significant p<0.1	* Significant p<0.05	**Significant p<0.01	***Significant p<0.001	

5 minutes after application of the BB cream, we can observe:

→ A significant decrease by **15%** of redness areas (p<0.001)

→ **We can conclude that the BB cream decreases significantly and immediately the redness on face.**

6.5.2 Results after 7 days of application of BB cream




	Values		Delta of variation T+7 days	% of variation T+7 days	% of responders
	T0	T+7 days			
Day cream + BB CREAM	0,35 ± 0,08	0,31 ± 0,06	-0,05 ± 0,09	-13 %[#]	60%
	# Significant p<0.1	* Significant p<0.05	**Significant p<0.01	***Significant p<0.001	





7 days after application of the BB cream, we can observe:

→ A significant decrease by **13%** of redness areas (p=0.5539)

→ **We can conclude that the application of BB cream for 7 days, while exposing 1 hour per day under sun, allowed a significant reduction in redness.**

6.5.3 Illustration of redness areas

VOL 13	T0	T1
DAY CREAM	 A redness map of a woman's face at time T0. The image shows a profile view of the face with a white headband. The skin is overlaid with a red color scale, indicating areas of redness. The redness is most prominent on the forehead, nose, and cheeks.	
BB CREAM	 A redness map of a woman's face at time T0. The image shows a profile view of the face with a white headband. The skin is overlaid with a red color scale, indicating areas of redness. The redness is most prominent on the forehead, nose, and cheeks.	
	 A redness map of a woman's face at time T1. The image shows a profile view of the face with a white headband. The skin is overlaid with a red color scale, indicating areas of redness. The redness is most prominent on the forehead, nose, and cheeks.	

VOL 16	T0	T1
DAY CREAM		
BB CREAM		

6.6 Self assessment questionnaire

6.6.1 Appreciation of organoleptic and sensory qualities

❖ Global evaluation and global aspect of the product

	Very pleasant	Pleasant	Nor pleasant, Neither unpleasant	Unpleasant	Very unpleasant
GLOBAL APPRECIATION	35%	60%	5%	0%	0%
Aspect	35%	60%	5%	0%	0%
Texture	20%	80%	0%	0%	0%
Fragrance	0%	40%	45%	10%	5%

After 7 days of daily application:

- **95 %** of volunteers found that the product was very pleasant or pleasant.
- **95%** of volunteers thought that the aspect of the product was very pleasant or pleasant.
- **100 %** of volunteers thought that the texture of the product was very pleasant or pleasant.
- **40 %** of volunteers thought that the fragrance of the product was very pleasant or pleasant.

❖ Product use

- **100 %** of volunteers included in the study found that the product was easy to apply.
- **100 %** of volunteers included in the study found that the product penetrates easily.
- **70 %** of volunteers included in the study felt a smooth effect after application of the product.
- **90 %** of volunteers included in the study noticed that the product adapts to their incarnation.

Other perceived benefits:

- Good looking and uniform complexion
- Feels comfortable and natural aspect
- Corrects the irregular appearance of the grain of skin. The dilated pores are blurred and less visible.
- Camouflage of sun spots and comfort
- A more homogeneous and brighter complexion
- Luminous and fresh complexion
- The skin is softer
- **70 %** of volunteers included in the study can do without their usual foundation or BB cream after application of the product.

6.6.2 Assessment of the efficacy

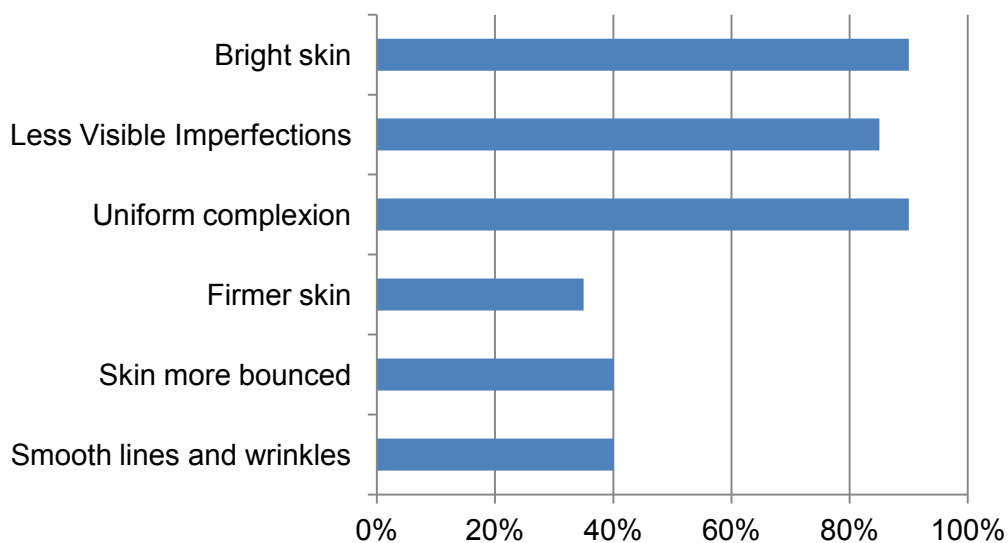
❖ You think using this product has improved the state of your skin in a way that is:

	Important	Moderately	Slight	Very slight	Null
After 7 days of use	0%	55%	40%	5%	0%

After 7 days of use, **55 %** of volunteers included in the study thought that the product has improved the state of their skin in a way that is **moderately** and **important**.

After 7 days of use :	Much more	More	No change	Less	Much less
Smooth lines and wrinkles	0%	40%	50%	10%	0%
Skin more bounced	5%	35%	60%	0%	0%
Firmer skin	0%	35%	65%	0%	0%
Uniform complexion	30%	60%	10%	0%	0%
Less Visible Imperfections	25%	60%	10%	5%	0%
Bright skin	25%	65%	10%	0%	0%

Graphical representation of the questionnaire's results:



❖ After application :

- **35 %** of volunteers included in the study found that their skin was firmer.
- **70 %** of volunteers included in the study found that their skin was more hydrated.
- **60 %** of volunteers included in the study found that their skin appeared less sensitized following the sun daily exposure

6.6.3 Conclusion

❖ In conclusion:

- **85 %** of volunteers included in the study found the product was very effective or effective.
- **100 %** of volunteers included in the study didn't feel unpleasant sensations or incomfort.
- No volunteers interrupted the treatment.
- **85 %** of volunteers included in the study would like to continue to use this product.

❖ At the end of this test and independently of the price:

	Yes, certainly	Yes, probably	I don't know	No, probably not	No, certainly not
Would you like to buy this product?	20%	45%	25%	10%	0%
Would you like to buy this product knowing that it is vegan?	30%	60%	5%	5%	0%

- **65 %** of volunteers would like to buy this care.
- **90 %** of volunteers would like to buy this care knowing that it is vegan.

6.7 Moisturizing assessment by Corneometer®

Means of skin moisturizing values for the global population are gathered in the table below. Individual values for each volunteer are presented in the appendixes.

	Values			Delta of variation		% of variation		% of responders	
	T0	T+30 min	T+7 days	T+30 min	T+7 days	T+30 min	T+7 days	T+30 min	T+7 days
BB cream	35,57 ± 11,78	43,93 ± 11,48	50,29 ± 11,70	8,36 ± 5,22	14,73 ± 8,11	24%***	41%***	95%	95%
CONTROL	36,95 ± 12,22	42,95 ± 11,90	40,51 ± 11,73	6,00 ± 5,29	3,56 ± 4,42	16%***	10%**	85%	80%

Significant p<0.1

* Significant p<0.05

**Significant p<0.01

***Significant p<0.001

After 30 minutes of application we can observe:

- A significant improvement by **24%** of skin moisturizing (p<0.001) with the use of the product and **16%** (p<0.001) for the control.
- The difference between the product and control is significant (p=0.0288).

After 7 days of application we can observe:

- A significant improvement by **41%** of skin moisturizing (p<0.001) with the use of the product and **10%** (p=0.0019) for the control.
- The difference between the product and control is significant (p<0.001).

- **We can conclude that the product has a significant and immediate moisturizing effect. Then, this effect increases very significantly after 7 days of application.**

7 CONCLUSION

The aim of the study was to assess on a panel of 20 volunteers, the efficacy of a BB cream on redness after a use of 1 week with a sun exposure during one hour per day.

Immediately after application, the BB cream “Le privilège” Base traitante decreases significantly the redness on face. After 7 days of application and despite a daily exposure of one hour in the sun, the BB cream “Le privilège” Base traitante allowed a reduction in redness.

The second objective was to assess the moisturizing activity of a BB cream on forearm after a twice daily use during one week.

The BB cream “Le privilège” Base traitante has a significant and immediate moisturizing effect. The significant increase of moisturizing after 7 days of application, allows us to conclude that the BB cream “Le privilège” Base traitante has a very good moisturizing power.

8 STUDY REPORT ARCHIVING

Raw data filing

The raw data consists of:

- Image analysis results
- Assays results
- Biometrological results using devices

All the raw data is kept in a paper file and a backup is saved when it is possible (depending on the used device).

Products ; samples ; blocks and blades filing

The products entrusted to BIO-EC are preserved one year after using the tested product.

The blocs, the stained and immunostained slides revealed by alkaline phosphatase and peroxidase are kept at BIO-EC's for fifteen years.

The frozen blocs will stay in possession of BIO-EC for two years at minus 80°C. If the culture media are harvested during the study, they will be stored for two years at minus 80°C.

After that, and without any other instructions from the client, they will all be destroyed.

Final report filing

The paper file is archived and kept for 20 years

The study report (raw data, images, preliminary reports, final report) and all the computer data are saved thanks to a double internal backup (KERTEL BOX2CLOUD, RAID 1) and by an automated and daily external system, Backupia (KERTEL Group).

Our computer system is protected by the anti-viruses Microsoft Security Essential, F-Secure and McAfee Saas.



Appendixes

Characteristics of volunteers

Volunteer	Age
1	48
2	32
3	41
4	49
5	57
6	44
7	34
8	47
9	49
10	53
11	42
12	39
13	44
14	30
15	24
16	30
17	38
18	51
19	53
20	27

Results of cornéométrie

BB crème

Volunteers	VALUES			DELTA VARIATION		% VARIATION	
	T0	T+30min	T7	T+30min - T0	T7 - T0	T+30min	T7
1	39,7	40	60,9	0,3	21,2	1%	53%
2	56	53,7	77,6	-2,3	21,6	-4%	39%
3	29,3	36	57,8	6,7	28,5	23%	97%
4	42	51	55,9	9	13,9	21%	33%
5	45,7	58	52,3	12,3	6,6	27%	14%
6	27,7	40,3	46,4	12,6	18,7	45%	68%
7	46,3	58,7	59,7	12,4	13,4	27%	29%
8	27,7	31,3	53,7	3,6	26	13%	94%
9	20	35	43,6	15	23,6	75%	118%
10	66	77	71,7	11	5,7	17%	9%
11	31,3	41,7	52,7	10,4	21,4	33%	68%
12	31	42	37,3	11	6,3	35%	20%
13	26,3	44	47,3	17,7	21	67%	80%
14	26,7	34,7	43,7	8	17	30%	64%
15	32,3	35	42,1	2,7	9,8	8%	30%
16	34,3	44,7	45,7	10,4	11,4	30%	33%
17	24,3	29,7	40,6	5,4	16,3	22%	67%
18	23,7	32,7	26,4	9	2,7	38%	11%
19	46,7	47,3	46,1	0,6	-0,6	1%	-1%
20	34,3	45,7	44,3	11,4	10	33%	29%
Mean	35,57	43,93	50,29	8,36	14,73	24%	41%
SD	11,78	11,48	11,70	5,22	8,11		

CONTROL

Volunteers	VALUES			DELTA VARIATION		% VARIATION	
	T0	T+30min	T7	T+30min - T0	T7 - T0	T+30min	T7
1	41	39,3	45,2	-1,7	4,2	-4%	10%
2	56,3	59,7	60,5	3,4	4,2	6%	7%
3	28,3	44	41,3	15,7	13	55%	46%
4	41,3	53,7	48,4	12,4	7,1	30%	17%
5	48	54,3	51,5	6,3	3,5	13%	7%
6	31	36,3	38,2	5,3	7,2	17%	23%
7	44,7	56,3	52,4	11,6	7,7	26%	17%
8	28,3	30,3	29,7	2	1,4	7%	5%
9	20,7	31,7	25,4	11	4,7	53%	23%
10	70,7	75,3	68,5	4,6	-2,2	7%	-3%
11	35	41,3	39,8	6,3	4,8	18%	14%
12	32,7	41	30,5	8,3	-2,2	25%	-7%
13	28	36,7	32,4	8,7	4,4	31%	16%
14	27	33,7	32,9	6,7	5,9	25%	22%
15	38	32	33,2	-6	-4,8	-16%	-13%
16	36,3	43,7	41,8	7,4	5,5	20%	15%
17	25,7	29	29,2	3,3	3,5	13%	14%
18	23	31	22,9	8	-0,1	35%	0%
19	48,3	45,7	44,3	-2,6	-4	-5%	-8%
20	34,7	44	42,1	9,3	7,4	27%	21%
Mean	36,95	42,95	40,51	6,00	3,56	16%	10%
SD	12,22	11,90	11,73	5,29	4,42		

Results of VISIA : immediate

BB cream

Volunteers	VALUES		DELTA VARIATION	% VARIATION
	T0	T1	T1 - T0	T1
1	0,340329	0,291	-0,049329	-14%
2	0,274125	0,258043	-0,016082	-6%
3	0,360282	0,31245	-0,047832	-13%
4	0,429364	0,350953	-0,078411	-18%
5	0,496458	0,401072	-0,095386	-19%
6	0,300567	0,252779	-0,047788	-16%
7	0,384084	0,367321	-0,016763	-4%
8				
9	0,483573	0,410589	-0,072984	-15%
10	0,307295	0,273214	-0,034081	-11%
11	0,377327	0,367735	-0,009592	-3%
12	0,414643	0,362177	-0,052466	-13%
13	0,342719	0,199396	-0,143323	-42%
14	0,344258	0,250196	-0,094062	-27%
15	0,301776	0,281305	-0,020471	-7%
16	0,283457	0,192798	-0,090659	-32%
17	0,447963	0,325882	-0,122081	-27%
18	0,516379	0,506228	-0,010151	-2%
19	0,463024	0,396481	-0,066543	-14%
20	0,359749	0,316641	-0,043108	-12%
Mean	0,38	0,32	-0,06	-15%
SD	0,08	0,08	0,04	

Day cream

Volunteers	VALUES		DELTA VARIATION	% VARIATION
	T0	T1	T1 - T0	T1
1	0,315097	0,311787	-0,00331	-1%
2	0,275631	0,165412	-0,110219	-40%
3	0,356851	0,371912	0,015061	4%
4	0,397089	0,429522	0,032433	8%
5	0,467222	0,405774	-0,061448	-13%
6	0,277136	0,285511	0,008375	3%
7	0,406037	0,415539	0,009502	2%
8	0,448563	0,426811	-0,021752	-5%
9	0,475218	0,476421	0,001203	0%
10	0,296822	0,27216	-0,024662	-8%
11	0,409939	0,428377	0,018438	4%
12	0,398891	0,389994	-0,008897	-2%
13	0,284719	0,299459	0,01474	5%
14	0,334691	0,352501	0,01781	5%
15	0,257485	0,264189	0,006704	3%
16	0,266121	0,271462	0,005341	2%
17	0,366387	0,322339	-0,044048	-12%
18	0,5588	0,5272	-0,0316	-6%
19	0,399891	0,402782	0,002891	1%
20	0,260658	0,277167	0,016509	6%
Mean	0,36	0,35	-0,01	-2%
SD	0,08	0,09	0,03	

Results of VISIA : 7 days

Volontaires	VALEURS		DELTA VARIATION T7 - T0	% VARIATION T7
	T0	T7		
1	0,273612	0,271284	-0,002328	-1%
2	0,26275	0,271563	0,008813	3%
3	0,303394	0,396431	0,093037	31%
4	0,429228	0,361691	-0,067537	-16%
5	0,428438	0,227654	-0,200784	-47%
6	0,25572	0,38583	0,13011	51%
7	0,388057	0,443982	0,055925	14%
8	0,467529	0,346368	-0,121161	-26%
9	0,474752	0,283433	-0,191319	-40%
10	0,249506	0,336527	0,087021	35%
11	0,350062	0,332289	-0,017773	-5%
12	0,39189	0,253584	-0,138306	-35%
13	0,270944	0,255521	-0,015423	-6%
14	0,275259	0,467278	0,192019	70%
15	0,270768	0,254783	-0,015985	-6%
16				
17	0,322598	0,294759	-0,027839	-9%
18	0,451597	0,317617	-0,13398	-30%
19	0,412756	0,302813	-0,109943	-27%
20	0,280469	0,304899	0,02443	9%
	0,35	0,31	-0,05	-13%
	0,08	0,06	0,09	