



T.C. YEDİTEPE ÜNİVERSİTESİ
AR-GE VE ANALİZ MERKEZ LABORATUVARLARI
YÜ-AGAM

YU-AGAM COSMETIC AND BIOCİDAL ANALYSIS LABORATORY ANALYSIS REPORT

Report No : KBL17001216 14/03/2018
Customer Information : ELZ KOZMETİK LTD. ŞTİ.
Offer No : KBL171863-03-ŞEK
Start / End Date of Analysis : 13/03/2018 / 13/03/2018
Date and Time of Receipt of Sample : 28/11/2017
Sample Check Status / Temperature : Cargo / 18 °C
Sample Type : Hair Loss Treatment Shampoo
Package : Original Packaging
Production and expiry date : 06/2015 / 06/2018
Serial - Lot : 0001
Quantity : 6000 ml
Manufacturer /Mark : / Q&R

Row No	Analysis	Analysis Method	Measurement Limit	Recovery	Analysis Result	Limit Value	Evaluation
1	Hair Loss Activity Test (^)	Regulation of the European Parliament and Council Regulation (EC) No 1223/2009 of 30 November 2009	-	-	The results of analysis are enclosed.		

The Results were evaluated on basis of

Above mentioned values have been determined from the analytical work performed

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Note 3. Result of analysis belong to sample mentioned above.

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Confirmable
14/03/2018

Sibel ŞİMŞEK YAZICI
Chemical Engineer
Laboratories Group Manager
Deputy General Manager

THE REPORT FROM DERMATOLOGICAL RESEARCH OF COSMETICAL PRODUCT TRICHOSCOPY TEST

Product **KBL17001216- HAIR LOSS TREATMENT SHAMPOO**

Responsible Person **YÜ-AGAM**

1. RESEARCH BASIS

Order date	07.12.2017
Research time frame	08.01.2018 – 01.03.2018

RESPONSIBLE PERSON NAME	
Company name	YÜ-AGAM
Address	

Product name	KBL17001216- HAIR LOSS TREATMENT SHAMPOO
Ingredients	Purified Soft Water, Sodium Laureth Sulphate, Cocamidopropyl Betaine, Cocamide DEA, Malus Domestica Fruit Cell Extract, Sh-Polypeptide-4, Sh-Polypeptide-13, Oligopeptide-79, Glycine Soja (Soybean) Seed Extract, Oryza Sativa (Rice) Extract, Inonotus Obliquus (Mushroom) Extract, Phellinus Linteus Extract, Ganoderma Lucidum (Mushroom) Extract, Aqua, Amodimethicone, C11-15 Pareth, Laureth-9, Glycerin, Trideceth-12, PEG-7 Glyceryl Cocoate, PEG-200 Hydrogenated Glyceryl Palmate, D-Panthenol, Polyquaternium-10, Sodium Chloride, Fragrance, Citronellol, Linalool, Methylchloroisothiazolinone, Methylisothiazolinone, Citric Acid, Disodium EDTA

2. PRODUCT CHARACTERISTIC

Product Package	Supplementary – plastic bottle
Product Appearance	Clear gel with delicate aroma
Product Purpose	Hair Shampoo

The responsible person is responsible for conformity with declared qualitative and quantitative composition and microbiological purity of the delivered research samples.

3. METHODOLOGY

- The study was conducted in accordance with Regulation of the European Parliament and Council Regulation (EC) No 1223/2009 of 30 November 2009 on cosmetic.
- The study was conducted in accordance with recommendation of Cosmetics Europe – The Personal Care Association Guidelines:
 - product test guidelines for the Assessment of Human Skin Compatibility 1997
 - guidelines for the evaluation of the Efficacy of Cosmetic Products 2008.
- All test of the **KBL17001216- HAIR LOSS TREATMENT SHAMPOO** preparations were carried out under supervision of specialists in dermatology in home settings (home panel).
 - Before preparation application, the skin was examined by specialists in dermatology.
 - Prior the tests, skin was free from any lesions, signs of irritation or contact allergy.

Subjects – volunteers were given one packages of **KBL17001216- HAIR LOSS TREATMENT SHAMPOO** each and were obliged to applying it regularly for 8 weeks (or until it's gone), according to manufacturer's directions: rinse after applying some shampoo with a moist sore massaging, repeat 2-3 times, soak, and rinse hair with plenty of water, not to use during the testing period, another products of the same or similar endpoint, stopping immediately preparations application in case of any side effects in the tested area and reporting them to the dermatologist involved in the tests, observation and precisely recording remarks concerning applicability properties of tested product, presenting to the dermatologist for check-ups during test and immediately after completing the test,

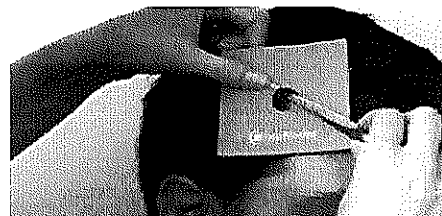
- Apparatus tests aimed at determining hair density, the amount of hair in the anagen phase and telogen phase as well as vellus and terminal hair density.

- Trichoscopy test.

5 people took part in trichoscopy test. Before testing, measures were made with the use of **KBL17001216- HAIR LOSS TREATMENT SHAMPOO**. The measures were also made after 8 weeks of regular applications in accordance with the manufacturer's instructions. On the first day of the test, a representative area of scalp was chosen of about 1,3 cm² for each proband. The area on scalp during this day was also trimmed. After 48 hours of trimming [+/- 2 hours] the growing hair was dyed [also black hair] and trichogram test was conducted. After 2 days properly pigmented hair in anagen phase may be distinguished from hair in telogen phase and also properly calculate its rate **Cary out the study:**

Phase I – Day 1

a/ to determine the representative area

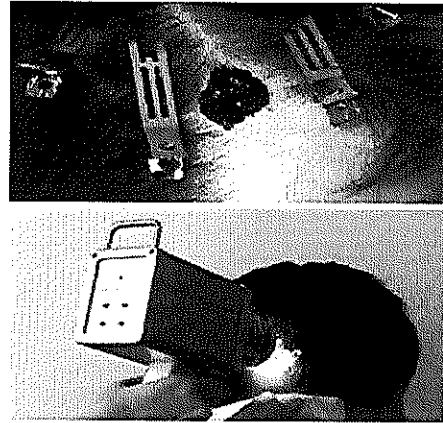


b/ hair trimming



Phase II – after 48 hours

a/ hair coloring



b/ performing a test

In order to assess the effectiveness of the therapy, the test was performed in the same way in the previously designated area after 8 weeks of testing the evaluated shampoo.

4. THE AIM OF STUDY

- The study aims to assess the confirmation of statements about the product.

5. SUBJECT – VOLUNTEERS SELECTION

- The selection of probands – volunteers was conducted by a dermatologist according to the Declaration of Helsinki of 1964 (with subsequent amendments), Polish laws, Cosmetics Europe directives with applying inclusion and exclusion criteria. 5 people took part in the study who met the requirements for entering the study and agreed to informed consent to participate in the study. The skin at the selected area was normal, without any lesions. Subjects were informed not to use any kinds of antihistamines or pharmacological agents at the time of test, which may affect the tests' results.

Age				
18 – 30 y.	31-40 y.	41-50 y.	51-60 y.	Above 60
0	3	2	0	0

6. RESULTS

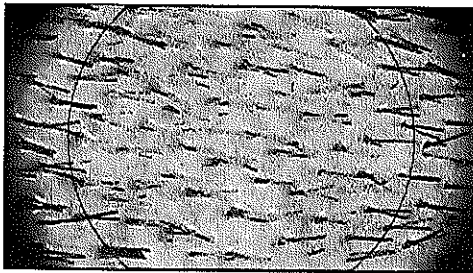
Tabela 1. Videotrichoscopy.

Subject	Period	Hair quantity	Density on cm ²	Anagen %	Telogen %	Vellus %	Terminal %
1M	Before	224	248,1	48,9	51,1	7,4	92,6
	After	225	249,2	55,1	44,9	8,5	91,5
2F	Before	218	241,3	63,3	36,7	10,1	89,9

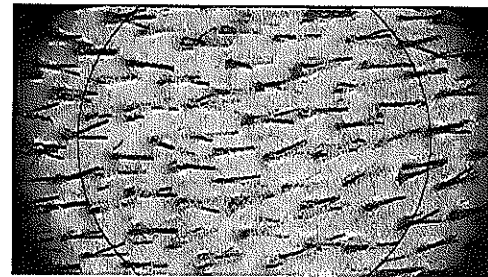
	After	222	245,8	61,1	38,6	4,8	95,2
3F	Before	196	217,00	39,7	60,3	16,7	83,3
	After	226	250,2	62,1	37,9	6,6	93,4
4M	Before	168	186,04	42,8	57,2	8,4	91,6
	After	208	230,3	49,6	50,4	7,5	92,5
5M	Before	214	236,9	54,1	45,9	13,7	86,3
	After	228	252,4	68,2	31,8	7,3	92,7
Average	Before	204,00	225,87	49,76	50,24	11,26	88,74
Average	After	221,80	245,58	59,22	40,72	6,94	93,06
Change in %		+9%	+9%	+10%	-10%	-4%	+4%

Subject 1

Before

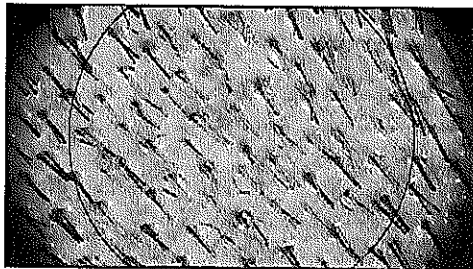


After

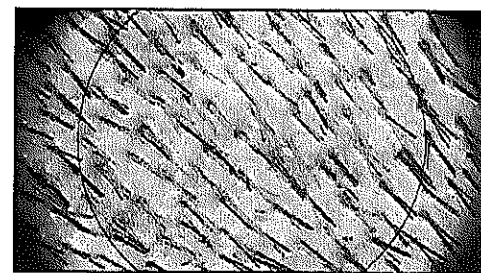


Subject 2

Before

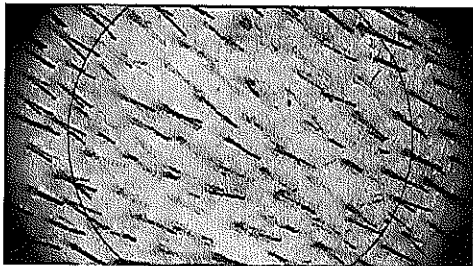


After

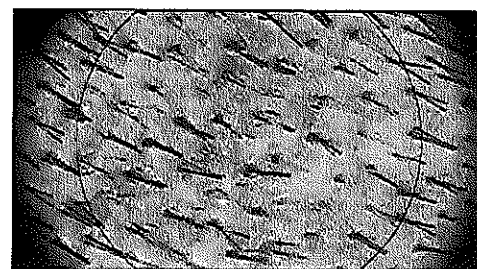


Subject 3

Before



After



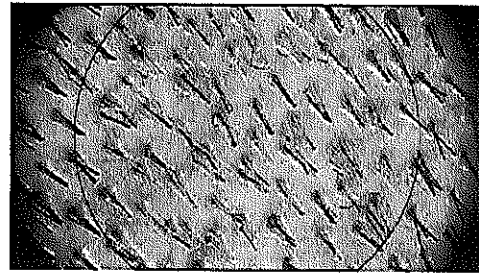
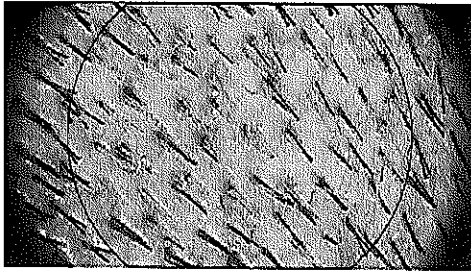
Subject 4

Before



After

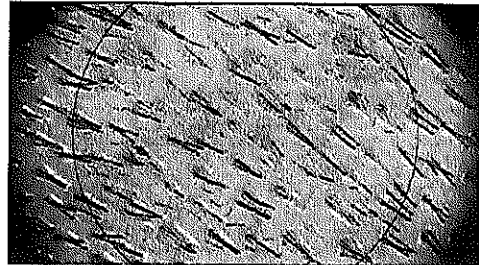
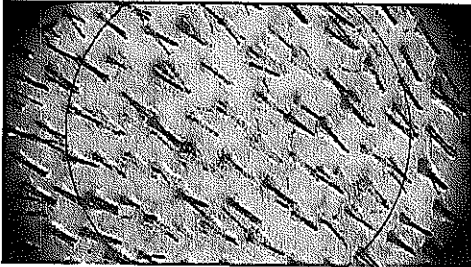




Subject 5

Before

After



7. CONCLUSION

1. The conducted apparatus tests showed that after 8 weeks of regular applications of the cosmetics **KBL17001216- HAIR LOSS TREATMENT SHAMPOO** there was:

- an increase in the amount of hair on average by 9% and the increase in hair density on average by 9%, - an decrease in the vellus hair density on average by 4% and the increase in terminal hair density on average by 4%,
- the amount of hair being renewed in the anagen phase was increased on average by 10%, - the amount of hair falling out in the telogen phase was reduced on average by 10%.

2. **KBL17001216- HAIR LOSS TREATMENT SHAMPOO** showed good influence on hair growth and stop hair loss.

Stamp and Signature of investigator

<p>Dr n. med. Adam A. Wroński specjalista dermatolog ul. Koni 20A/4 2367752</p>	<p>Dr n. med. Aleksander Wroński specjalista dermatolog Białystok ul. Ukośna 20A/4 2367752</p>
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