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REPORT No. 195402-1/23/INT/GDA/PK

Client:	*Sample (according to declaration of the Client)*
NERYON ENTERPRISES KFT **VERES PÁLNÉ UTCA 9, FSZ 6** **1053 BUDAPEST** **HUNGARY**	**MINTA1 AND MINTA2**
Report date: 15.06.2023	

REPORT OF INSTRUMENTAL TEST

Authorized by: Łukasz Wyczyński, Project Manager (qualified electronic signature)
Karolina Osiecka, Dermatologist – Venereologist, 2487308

Laboratory: ul. Bajana 3D, 80-463 Gdańsk, Poland

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1. THE BASIS TO CONDUCT THE STUDY

The Client is responsible for conformity with the declared quality composition of the product, as well as microbiological purity test and negative result of dermatological test of the delivered samples.

SCOPE OF TESTS COMPLIANT WITH:

- Regulation of the European Parliament and of the Council (EC) No. 1223/2009 of 30 November 2009 on cosmetic products.
- Cosmetics Europe – The Personal Care Association (previously COLIPA) Guidelines "Product Test Guidelines for the Assessment of Human Skin Compatibility 1997."
- Cosmetics Europe – The Personal Care Association (previously COLIPA) Guidelines for the Evaluation of the Efficacy of Cosmetic Products 2008.
- Cosmetics Europe - The Personal Care Association (previously COLIPA) GUIDELINES FOR COSMETIC PRODUCT CLAIM SUBSTANTIATION Revising and expanding the Colipa Guidelines on Efficacy (2001/rev. 2008) 22 May 2019.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-01/PK.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-03/PK.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-14/PK.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-16/PK.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-39/PK.
- Technical Instruction exercised at the J.S. Hamilton Poland IT-43/PK.

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2. INVESTIGATIONAL PRODUCT

Parameter	Description
Product reference	MINTA1 AND MINTA2
Intended use	The products are intended for scalp and hair care.
Received on	18.04.2023

Contraindications for use of the products are: acute inflammation of the place of application, requiring pharmacological treatment and allergy recognized or hypersensitivity to any of its ingredients.

The Client is responsible for conformity of declared composition of the product with Regulation 1223/2009.

3. STUDY DESCRIPTION

3.1 Aim of the study

Confirmation/exclusion of the declared efficiency of the products.

3.2 Study duration

28 days (+/- 2 days)

3.3 Testing methodology

3.3.1 Measurement of hair density using Aramo SG® ASG 200F

The aim of the study was to assess the direct influence of the products on hair density - number of hair per square centimeter. The test has been conducted using special measuring device manufactured by ARAM HUVIS Co., Ltd. – ARAMO SG® ASG 200F. Instrumental study has been carried out on 11 subjects. The measurements in zoom 60-times has been performed at the specified zone – before products application (D0) and after 28 days (D28) of regular use. The study has been carried out in an air conditioned room in the temp. of 20±2ºC and relative humidity 50±10%. The products efficacy is confirmed in case of the positive results obtained in more than 50% of subjects.

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3.3.2 Macrophotography of the surface of the scalp and hair in zoom 60-times using Aramo SG® ASG 200F

The aim of the test was to take pictures of the zone on the scalp to present hair growth and scalp state. The test has been conducted using special measuring device manufactured by ARAM HUVIS Co., Ltd. – ARAMO SG® ASG 200F. Instrumental study has been carried out on 11 subjects. The macrophotography of scalp and hair in zoom 60-times has been performed before application (D0) and after 28 days (D28) of regular use. The study has been carried out in an air conditioned room in the temp. of 20±2ºC and relative humidity 50±10%.

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4. DESCRIPTION OF SUBJECTS

GENERAL	Sign an informed consent to participate in the study, were informed about the purpose of the study, the manner of its conduct and the possible side effects.	
	The site of product application without irritation and changes requiring pharmacological treatment (specialist evaluation).	
SPECIFIC	Amount of subjects:	10
	Gender:	Women, men
	Age:	18+
	Hair and scalp type:	All

The qualified subjects received the tested products and were obliged to:

- use of the products according to the method of use,
- during the test any other products of similar effects must not be used,
- in case of any side effects on skin they should immediately stop using the product and consult specialist at J.S. Hamilton Poland.

The test results may be affected by such factors as:

- type and condition at the site of product application,
- inter-individual genetic characteristics.

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5. RESULTS

5.1 Characteristic of subjects

Subject's no.	Subject's code	Gender	Age	Scalp type	Sensitive scalp	Study date	Study date	Comments
1.	JAN JO	W	56	G	Y	05.05.2023	02.06.2023	-
2.	DUR MI	W	54	D	N	05.05.2023	02.06.2023	-
3.	TAR PA	W	39	N	Y	05.05.2023	02.06.2023	-
4.	PAS BA	W	64	D	Y	05.05.2023	02.06.2023	-
5.	SKO MA	W	42	D	Y	05.05.2023	02.06.2023	-
6.	FAL MA	W	28	D	Y	05.05.2023	07.06.2023	The subject finished the study on D33 instead of D28.
7.	SZU RO	W	47	N	N	05.05.2023	02.06.2023	-
8.	URB BA	W	64	D	Y	05.05.2023	02.06.2023	-
9.	MAR AG	W	39	D	N	05.05.2023	07.06.2023	The subject finished the study on D33 instead of D28.
10.	NOW AR	W	51	D	N	05.05.2023	02.06.2023	-
11.	ILC LU	W	51	D	Y	05.05.2023	02.06.2023	-

WOMEN (W)	11	MEAN	49	DRY (D)	8	YES (Y)	7	NUMBER OF SUBJECTS, WHO STARTEDTHE STUDY	11	NUMBER OF SUBJECTS, WHO FINISHED THE STUDY	11
MEN (M)	0	MIN	28	NORMAL (N)	2	NO (N)	4				
		MAX	64	GREASY (G)	1						

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5.2 The instrumental test result

5.2.1 Measurement of hair density using Aramo SG® ASG 200F

Assumption:

The products improve the hair density when the parameter value increases.

Table 1. Aramo SG® ASG 200F. The mean results of hair density at the site of the products application on measurements before application (D0) and after 28 days (D28) of regular use in [average amount of hair/cm^2].

Subject's no.	Before (D0)	After 28 days (D28)	Difference (D28-D0)
1.	97,3	112,3	15,0
2.	129,7	138,7	9,0
3.	139,0	147,3	8,3
4.	104,0	124,0	20,0
5.	129,3	149,0	19,7
6.	126,0	133,3	7,3
7.	149,3	175,0	25,7
8.	88,5	110,0	21,5
9.	100,5	106,0	5,5
10.	135,3	145,3	10,0
11.	97,7	108,3	10,7
Mean	**117,9**	**131,8**	**13,9**
Min	**88,5**	**106,0**	**5,5**
Max	**149,3**	**175,0**	**25,7**
SD	**20,7**	**21,8**	**6,8**
Median	**126,0**	**133,3**	**10,7**
Δ%			**12%**
% subjects with positive effect			**100%**

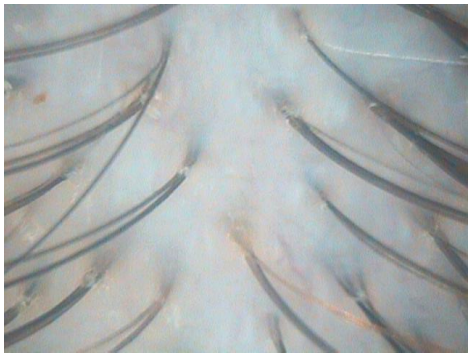
Conclusion: The products **MINTA1 AND MINTA2** improve hair density.

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5.2.2 Macrophotography of the surface of the scalp and hair in zoom 60-times using Aramo SG® ASG 200F

Table 2. Aramo SG® ASG 200F. The images of the surface of the scalp and hair in zoom 60-times before products application (D0) and after 28 days (D28) of regular use.

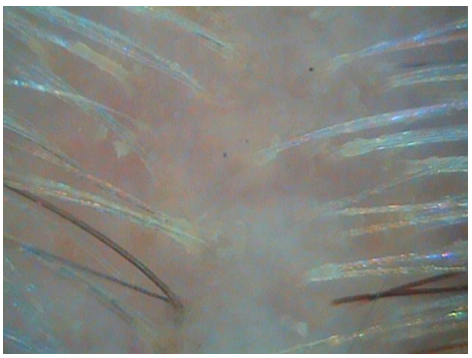
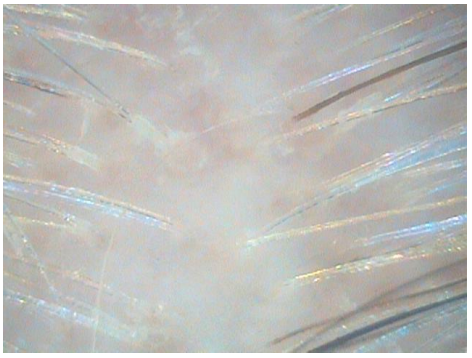
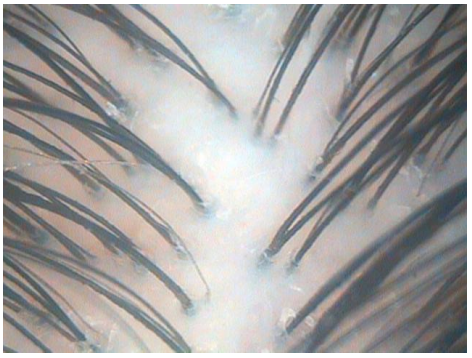
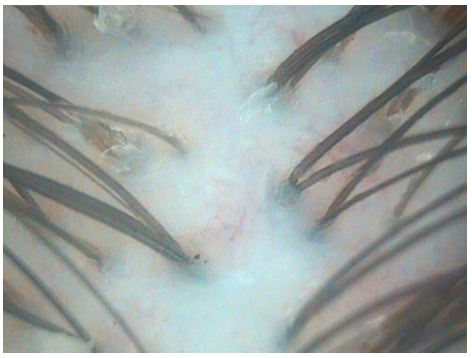
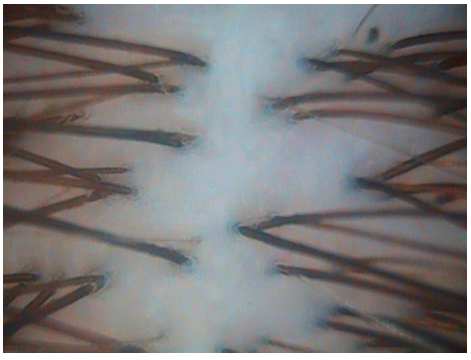
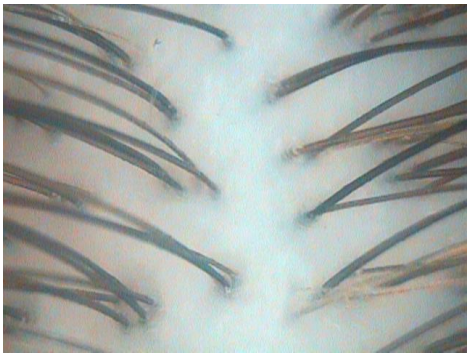
Subject's no.	Before (D0)	After 28 days (D28)
1.		
2.		
3.		

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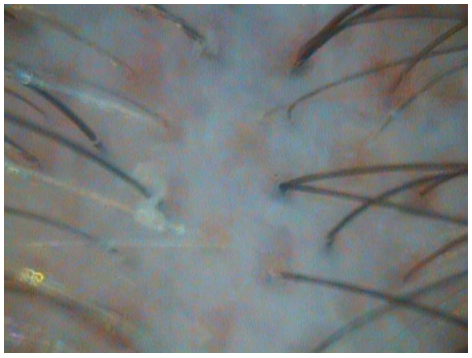
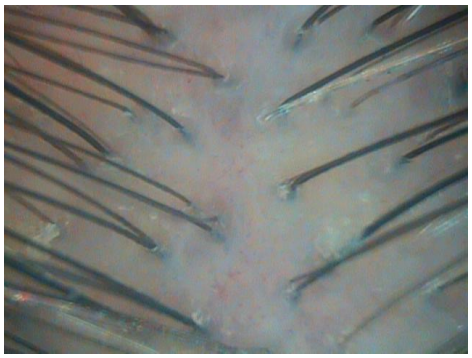
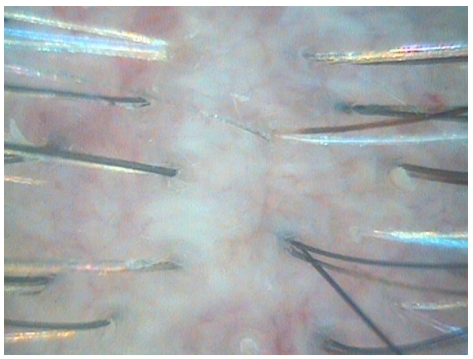
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4.		
5.		
6.		
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10.		
11.		

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6. CONCLUSION

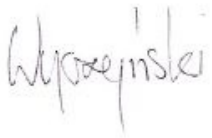
Under the study conditions after 28 days of regular use it is concluded, basing on instrumental tests, that the products **MINTA1 AND MINTA2** improve hair density (average 12%).

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7. SIGNATURES

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