

REPORT No. 418147/17/JSHR

Client: REKZE LABORATORIES, LTD 71-75 Shelton Street, Covent Garden, WC2H 9JQ London UK		Sample (<i>according to declaration of the Client</i>) REKZE 24 SERUM ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM
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**REPORT OF USE TEST AND INSTRUMENTAL TEST
UNDER DERMATOLOGICAL CONTROL**

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REPORT No. 418147/17/JSHR**1. THE BASIS TO CONDUCT THE STUDY**

- Samples delivered by the Customer.
- The qualitative composition of the product delivered by the Customer.
- The results of microbiological purity of the product delivered by the Customer.
- Negative result of semi-occlusive patch test performed in J.S. Hamilton International (Report no. 411809/17/JSHR).

The Customer is responsible for conformity with the declared quality composition of the product as well as microbiological purity 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.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-01/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-03/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-14/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-16/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-39/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-42/PK.
- Technical Instruction applicable at the J.S. Hamilton Poland S.A. IT-43/PK.

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2. SUBJECT OF THE TEST
2.1 Description of the product

Parameter	Description
Intended use	The product is intended for use as a serum
Appearance	Liquid
Color	Yellow
Fragrance	Characteristic for used raw ingredients
Packaging	Repackaging
Direction of use	Shake before use. Serum should be applied directly to the scalp twice per day, everyday, without skipping applications. Apply 1 milliliter of serum (3-5 spray) each time. Using less would reduce the effectiveness. Do not rinse.
Product photo	

2.2 Qualitative composition of the product (INCI)

AQUA, ALCOHOL DENAT., PPG-26-BUTETH-26, PEG-40 HYDROGENATED CASTOR OIL, BUTYLENE GLYCOL, MENTHOL, KERATIN, PHENETHYL ALCOHOL, ETHYLTRIMONIUM CHLORIDE METHACRYLATE/HYDROLYZED WHEAT PROTEIN COPOLYMER, CAPRYLYL GLYCOL, PEG-5 COCOMONIUM METHOSULFATE, APIGENIN, BIOTINOYL TRIPEPTIDE-1, OLEANOLIC ACID, SPHINGANINE, SODIUM GLUTAMATE, MENTHYL LACTATE, HYDROLYZED COLLAGEN, HYDROLYZED SOY PROTEIN, LAURYL DIMONIUM HYDROXYPROPYL HYDROLYZED SOY PROTEIN, SODIUM COCOYL GLUTAMATE, GLYCINE, ASTRESSIN- B, HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE, CINNAMOMUM ZEYLANICUM BARK EXTRACT, GINKGO BILOBA LEAF EXTRACT, KIGELIA AFRICANA FRUIT EXTRACT, SALVIA SCLAREA EXTRACT, PROPYLENE GLYCOL.

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REPORT No. 418147/17/JSHR**3. AIM OF THE STUDY**

Confirmation/exclusion of the declared properties and efficiency of the product.

3.1 Product claims/properties declared by the Customer

- The product reduces hair loss.
- The product stimulates hair growth.
- The product improves hair condition.
- The product gives a feeling that the hair feels non-sticky.
- The product gives a feeling that the hair shafts are thicker.
- Hair is less breakage.
- Hair is less dull.
- Hair is less dry.
- Hair is less thinning.
- Hair is easier to style.
- The product gives a feeling that the scalp is revitalized.
- The product gives a feeling that the hair is clean and weightless.
- The product gives a feeling that the hair are stronger.
- The product gives a feeling that the hair is more resilient.
- The product gives a feeling that the scalp is less itchy.
- The product gives a feeling that the hair is less brittle.
- The product gives a feeling that the hair has increased elasticity.
- The product gives a feeling that the scalp is nourished.
- The product gives a feeling that the scalp is less dry.
- The product gives a feeling that the scalp is clean.
- The product makes hair smoother.
- The product makes hair softer.
- The product gives a feeling that the hair feels nourished.
- The product does not weigh down hair.
- Hair looks denser.
- Hair looks shinier.
- Hair has more volume.
- Hair is less frizzy.
- The product gives a feeling that the scalp is refresh.
- The product makes hair fuller.

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REPORT No. 418147/17/JSHR**3.2 Study duration**

4 weeks (25.10.2017 – 22.11.2017)

3.3 Testing methodology**3.3.1 Use test**

The use test conducted at home under dermatological supervision.

The study concerned on:

- assess the impact of cosmetic on safety to human health based on a long-term tolerance of the skin at the application site as a result of regular, repetitive application of the product, according to the purpose and use of the specified time (repetitive test).
- research leading to confirm or exclude the effect claimed for the cosmetic.

The Evaluation Questionnaire form, the characteristics of the panel and numbers of volunteers (25 people) were in line with customer requirements (Study Protocol No. 189.2.17.Z3). The product was applied by volunteers accordance with the declared method of use.

Declarations will be confirmed only if the ratio of the received positive responses to the total number of volunteers participating in the study will be above 50%.

3.3.2 Instrumental test**3.3.2.1 Measurement of hair density before and after the product application using Aramo SG® ASG 200F**

The aim of the study is to measure hair density before and after the product application. 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 10 volunteers involved in use test. The measurements in zoom 60-times has been performed at the specified shaved zone – before product application (D0) and after 4 weeks (D28) of regular application. All measurements have been carried out in an air conditioned room in the temp. of $20\pm 2^{\circ}\text{C}$ and relative humidity $50\pm 10\%$. If the difference between results before (D0) and after (D28) increase significantly then the product efficacy is confirmed. The results were statistically analyzed with STATISTICA 12. The level of significance was set $p < 0,05$.

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REPORT No. 418147/17/JSHR**3.3.2.2 Measurement of hair thickness before and after the product application using Aramo SG® ASG 200F**

The aim of the study is to measure hair thickness on 10 hair before and after the product application. 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 10 volunteers involved in use test. The measurements in zoom 200-times has been performed at the site of application – before product application (D0) and after 4 weeks (D28) of regular application. All measurements have been carried out in an air conditioned room in the temp. of $20\pm 2^{\circ}\text{C}$ and relative humidity $50\pm 10\%$. If the difference between results before (D0) and after (D28) increase significantly then the product efficacy is confirmed. The results were statistically analyzed with STATISTICA 12. The level of significance was set $p < 0,05$.

3.3.2.3 Macrophotography of the surface of the scalp and hair in zoom 60-times before and after the product application using Aramo SG® ASG 200F

The aim of the test was to take pictures of the zone on the scalp to present an improvement in hair density and hair growth. The test has been conducted using special measuring device manufactured by ARAM HUVIS Co., Ltd. – ARAMO SG® ASG 200 F. Instrumental study has been carried out on 10 volunteers involved in use test. The macrophotography of scalp and hair in zoom 60-times has been performed at the specified shaved zone – before product application (D0) and after 4 weeks (D28) of regular application. All measurements have been carried out in an air conditioned room in the temp. of $20\pm 2^{\circ}\text{C}$ and relative humidity $50\pm 10\%$.

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4. DESCRIPTION OF VOLUNTEERS
Inclusion criteria:

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.	
	Skin without irritation and changes requiring pharmacological treatment (dermatological evaluation).	
SPECIFIC	Amount of volunteers:	25 volunteers – use test, including 10 people – instrumental test
	Gender:	Women, Men (50% men and 50% women)
	Age:	18 – 55
	Other:	Men and women with hair fall tendency, noticeable diffuse thinning, dry damaged aspect of hair, hair that is easily breakable.

The qualified volunteers received the tested product, specially developed questionnaire and were obliged to:

- regular use of the product according to the method of use during application period,
- during the test any other products of similar effects must not be used,
- a detailed evaluation of the tested product by using the received questionnaire,
- in case of any side effects on scalp they should immediately stop using the product and consult dermatologist at J.S. Hamilton International.

The test results may be affected by such factors as:

- scalp and hair condition at the site of product application,
- inter-individual genetic characteristics,
- individual preferences of volunteers.

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5. RESULTS
5.1 Characteristic of volunteers

Number of volunteer	Initials of volunteer	Gender W/M	Age	Type of hair type	Scalp sensitivity	Study initiation date	Study completion date					
1	WŁ	M	52	D	N	25.10.2017	Volunteer did not finish the instrumental test and the use test					
2	DP	M	50	N	N	25.10.2017	22.11.2017					
3	DK	M	40	N	N	25.10.2017	22.11.2017					
4	JR	W	44	G	Y	25.10.2017	22.11.2017					
5	AW	W	40	D	N	25.10.2017	22.11.2017					
6	JW.	M	55	N	N	25.10.2017	22.11.2017					
7	WR	W	41	D	N	25.10.2017	22.11.2017					
8	AJ	W	34	D	N	25.10.2017	22.11.2017					
9	MJ	M	42	G	Y	25.10.2017	22.11.2017					
10	JS	W	39	N	N	25.10.2017	22.11.2017					
11	DK	W	27	D	Y	25.10.2017	22.11.2017					
12	ED	W	24	N	N	25.10.2017	22.11.2017					
13	JD	M	55	D	Y	25.10.2017	22.11.2017					
14	MF	W	30	D	N	25.10.2017	22.11.2017					
15	DG	W	42	G	Y	25.10.2017	22.11.2017					
16	DP	W	28	D	N	25.10.2017	22.11.2017					
17	MW	M	22	N	N	25.10.2017	22.11.2017					
18	JK	W	26	D	N	25.10.2017	22.11.2017					
19	DI	M	39	D	N	25.10.2017	22.11.2017					
20	BR	M	30	D	Y	25.10.2017	22.11.2017					
21	MZ	M	41	D	N	25.10.2017	22.11.2017					
22	AS	W	26	D	N	25.10.2017	22.11.2017					
23	FS	M	25	D	Y	25.10.2017	22.11.2017					
24	MB	M	34	N	N	25.10.2017	22.11.2017					
25	MS	M	53	G	N	25.10.2017	22.11.2017					
	WOMEN (W)	12	THE AVERAGE AGE	38	DRY (D)	14	YES (Y)	7	NUMBER OF VOLUNTEERS, WHO STARTED THE INSTRUMENTAL TEST	10	NUMBER OF VOLUNTEERS, WHO ENDED THE INSTRUMENTAL TEST	9
	MEN (M)	13	MINIMAL AGE	22	NORMAL (N)	7	NO (N)	18	NUMBER OF VOLUNTEERS, WHO STARTED THE USE TEST	25	NUMBER OF VOLUNTEERS, WHO ENDED THE USE TEST	24
			MAXIMUM AGE	55	GREASY (G)	4						

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REPORT No. 418147/17/JSHR**5.2 Assessment of the cosmetic impact on safety of human health – including the tests on skin tolerance in the site of application (repeated application)**

On the basis of medical examinations and interviews collected from volunteers we found that: the tested product **REKZE 24 SERUM – ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM** was moderately tolerated on the scalp and hair, because of 18 out of 24 people who finished the study, during the regular application over a period of 4 weeks, there was no way in the interview negative symptoms and feelings that might indicate an intolerance to any component of the product, such as redness, burning sensation, swelling, tingling and itching. The product did not cause dryness at the site of application of all 24 volunteers who finished the study. Four volunteers [4.JR/W], [5.AW/W], [6.JW/M] and [22.AS/W] reported burning sensation after the product application. One volunteer reported itching [9.MJ/M] and the other volunteer [3.DK/M] reported skin irritation after the product application.

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

The results obtained in the test allow to conclude, that the product used as intended is safe for health of persons, in whom there is not a contraindication to its use.

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5.3 Confirmation of the effect claimed for the cosmetic product

Regulation of the European Parliament and of the Council (EC) No. 1223/2009 of 30 November 2009 on cosmetic products.

Based on the results of use test – subjective feelings of volunteers we concluded that properties of the product **REKZE 24 SERUM – ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM** declared by the Customer were assessed as follows:

• The product reduces hair loss.	: 75% positive responses
• The product stimulates hair growth.	: 54% positive responses
• The product improves hair condition.	: 63% positive responses
• The product gives a feeling that the hair feels non-sticky.	: 75% positive responses
• The product gives a feeling that the hair shafts are thicker.	: 46% positive responses
• Hair is less breakage.	: 50% positive responses
• Hair is less dull.	: 71% positive responses
• Hair is less dry.	: 63% positive responses
• Hair is less thinning.	: 58% positive responses
• Hair is easier to style.	: 88% positive responses
• The product gives a feeling that the scalp is revitalized.	: 79% positive responses
• The product gives a feeling that the hair is clean and weightless.	: 67% positive responses
• The product gives a feeling that the hair are stronger.	: 63% positive responses
• The product gives a feeling that the hair is more resilient.	: 50% positive responses
• The product gives a feeling that the scalp is less itchy.	: 71% positive responses
• The product gives a feeling that the hair is less brittle.	: 63% positive responses
• The product gives a feeling that the hair has increased elasticity.	: 54% positive responses
• The product gives a feeling that the scalp is nourished.	: 79% positive responses
• The product gives a feeling that the scalp is less dry.	: 71% positive responses
• The product gives a feeling that the scalp is clean.	: 79% positive responses
• The product makes hair smoother.	: 67% positive responses
• The product makes hair softer.	: 54% positive responses
• The product gives a feeling that the hair feels nourished.	: 71% positive responses
• The product does not weigh down hair.	: 71% positive responses
• Hair looks denser.	: 54% positive responses
• Hair looks shinier.	: 75% positive responses
• Hair has more volume.	: 46% positive responses
• Hair is less frizzy.	: 67% positive responses
• The product gives a feeling that the scalp is refresh.	: 67% positive responses
• The product makes hair fuller.	: 75% positive responses

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Moreover:

• Suitable fragrance.	: 38% positive responses
• Suitable fragrance intensity.	: 50% positive responses
• Appropriate consistency.	: 83% positive responses
• Easy spreadability.	: 88% positive responses
• Pleasant product application (comfort of use).	: 88% positive responses
• Overall positive assessment.	: 71% positive responses
• Comparing with other similar products used in the past, the tested product was assessed as better.	: 58% positive responses
• Intention to buy the product.	: 58% positive responses

Answers on all questions are presented in the Appendix **7.1**.

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5.4 The instrumental test result.
5.4.1 Measurement of hair density before and after the product application using Aramo SG® ASG 200F
Assumption:

The product efficacy is confirmed when the difference between measurement before (D0) and measurement after 4 weeks (D28) is increase significantly.

Table 1. Aramo SG® ASG 200F. The mean results of hair density at the site of the product application on measurements before application (D0) and after 4 weeks (D28) of regular application in [average amount of hair/cm²].

Volunteer (number/initials/ gender)	First measurement (D0)	Measurement after 4 weeks (D28)	Difference (D28-D0)
1.WŁ/M	69*	no measurement	
2.DP/M	78	107	29
3.DK/M	125	169	44
4.JR/W	94	132	38
5.AW/W	117	152	35
6.JW/M	101	113	12
7.WR/W	125	143	18
8.AJ/W	117	144	27
9.MJ/M	120	138	18
10.JS/W	134	165	31
Mean	112	140	28
Min	78	107	12
Max	134	169	44
SD	18	21	10
Median	117	143	29
p-value			0,00004
Significance			Yes
Δ%			25%
% of volunteers with the positive effect			100%

*the result was not included in the calculation

Conclusion: The product **REKZE 24 SERUM – ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM** improves hair density.

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5.4.2 Measurement of hair thickness before and after the product application using Aramo SG® ASG 200F
Assumption:

The product efficacy is confirmed when the difference between measurement before (D0) and measurement after 4 weeks (D28) is increase significantly.

Table 2. Aramo SG® ASG 200F. The mean results of hair thickness at the site of the product application on measurements before application (D0) and after 4 weeks (D28) of regular application in [mm].

Volunteer (number/initials/ gender)	First measurement (D0)	Measurement after 4 weeks (D28)	Difference (D28-D0)
1.WŁ/M	0,064*	no measurement	
2.DP/M	0,068	0,084	0,016
3.DK/M	0,070	0,073	0,003
4.JR/W	0,054	0,061	0,007
5.AW/W	0,094	0,091	-0,003
6.JW/M	0,091	0,096	0,005
7.WR/W	0,099	0,106	0,007
8.AJ/W	0,097	0,100	0,003
9.MJ/M	0,093	0,106	0,013
10.JS/W	0,089	0,092	0,003
Mean	0,084	0,090	0,006
Min	0,054	0,061	-0,003
Max	0,099	0,106	0,016
SD	0,016	0,015	0,006
Median	0,091	0,092	0,005
p-value			0,01345
Significance			Yes
Δ%			7%
% of volunteers with the positive effect			89%

*the result was not included in the calculation

Conclusion: The product **REKZE 24 SERUM – ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM** improves hair thickness.

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5.4.3 Macrophotography of the surface of the scalp and hair in zoom 60-times before and after the product application using Aramo SG® ASG 200F

Assumption:

Product's properties are confirmed, when hair density is improved.

Table 3. Aramo SG® ASG 200F. The images of the surface of the scalp and hair in zoom 60-times before application (D0) and after 4 weeks (D28) of regular application.

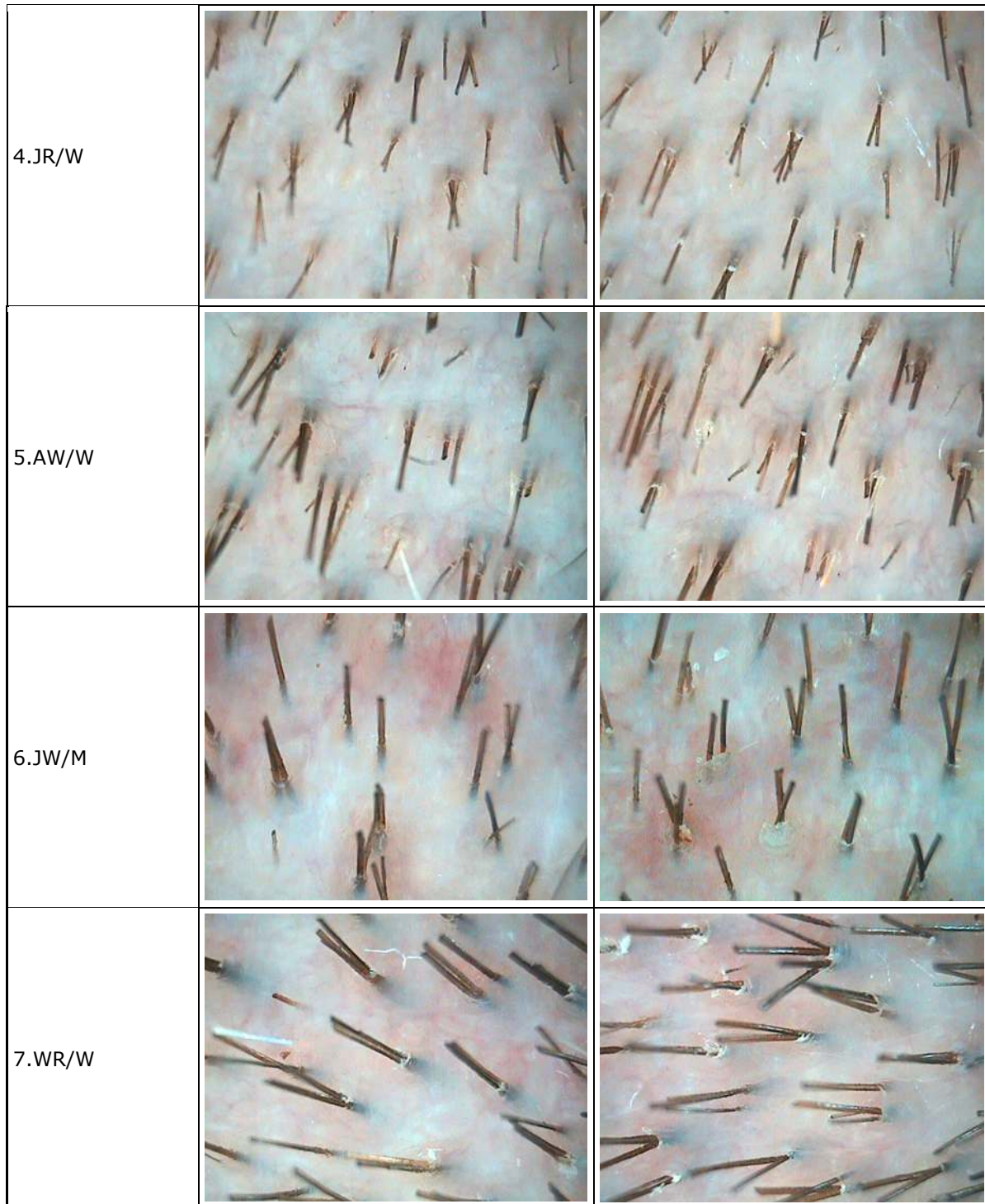
Volunteer (number/initials /gender)	Before (D0)	After 4 weeks of product use (D28)
1.WŁ/M		The volunteer did not finish the instrumental test
2.DP/M		
3.DK/M		

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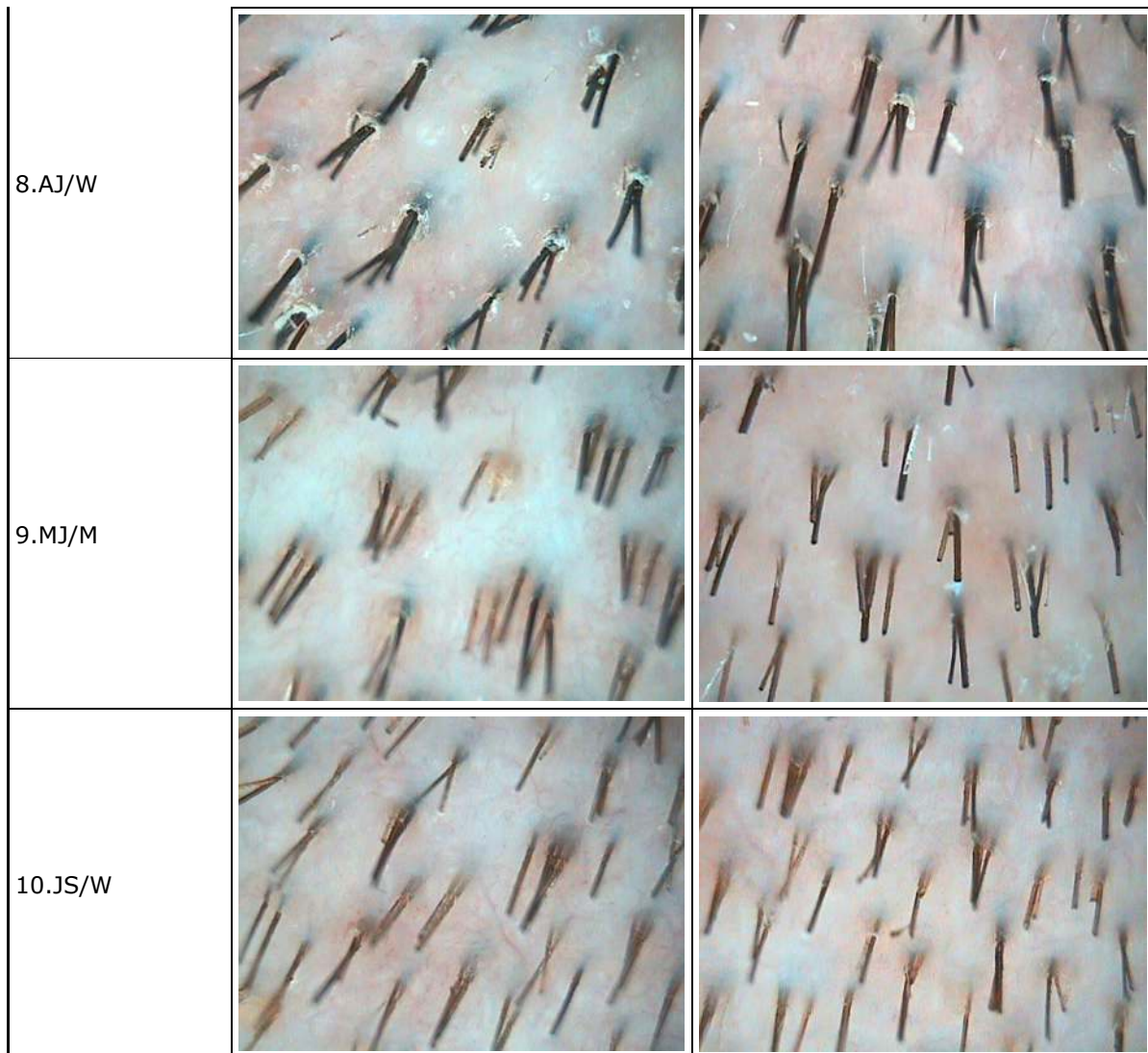


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Conclusion: The improvement in hair density was observed in all 9 volunteers, who finished the study.

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REPORT No. 418147/17/JSHR**6. CONCLUSION**

Under the study conditions, after 4 weeks of application, is concluded that the product

REKZE 24 SERUM – ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM:

- was moderately tolerated on the scalp and hair,
- properties declared by the Customer have been confirmed:
 - The product reduces hair loss.
 - The product stimulates hair growth.
 - The product improves hair condition.
 - The product gives a feeling that the hair feels non-sticky.
 - Hair is less dull.
 - Hair is less dry.
 - Hair is less thinning.
 - Hair is easier to style.
 - The product gives a feeling that the scalp is revitalized.
 - The product gives a feeling that the hair is clean and weightless.
 - The product gives a feeling that the hair are stronger.
 - The product gives a feeling that the scalp is less itchy.
 - The product gives a feeling that the hair is less brittle.
 - The product gives a feeling that the hair has increased elasticity.
 - The product gives a feeling that the scalp is nourished.
 - The product gives a feeling that the scalp is less dry.
 - The product gives a feeling that the scalp is clean.
 - The product makes hair smoother.
 - The product makes hair softer.
 - The product gives a feeling that the hair feels nourished.
 - The product does not weigh down hair.
 - Hair looks denser.
 - Hair looks shinier.
 - Hair is less frizzy.
 - The product gives a feeling that the scalp is refresh.
 - The product makes hair fuller.
- improves hair density (average 25%).
- improves hair thickness (average 7%).

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7. APPENDIXES
7.1 Summary of the questionnaire

One volunteer presents 4,2% of answers. The values are rounded off.

418147 REKZE 24 SERUM - ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM					
I. ASSESSMENT OF THE PRODUCTS PROPERTIES					
	Definitely does not suit me	Does not suit me	Neutral	Suits me	Definitely suits me
1 Fragrance	13%	17%	33%	29%	8%
	Far too intensive	Too intensive	Suitable	Too little intensive	Definitely too little intensive
2 Fragrance intensity	8%	38%	50%	4%	0%
	Definitely too watery	Too watery	Appropriate	Too thick	Definitely too thick
3 Consistency	0%	17%	83%	0%	0%
	Definitely difficult	Difficult	Easy	Definitely easy	
4 Spreadability	0%	13%	46%	42%	
	Unpleasant	Pleasant			
5 Product application (comfort of use)	13%	88%			
	Definitely no	No	Yes	Definitely Yes	
6 The product reduces hair loss	0%	25%	58%	17%	
7 Did you notice that this product stimulates hair growth?	0%	46%	42%	13%	
8 The product improves hair condition	0%	38%	46%	17%	
9 Hair feels non-sticky	0%	25%	50%	25%	
10 Hair shafts feel thicker	4%	50%	33%	13%	
11 Did you notice less breakage hair?	0%	50%	38%	13%	
12 Hair is less dull	0%	29%	54%	17%	
13 Did you notice, that hair is less dry?	4%	33%	46%	17%	
14 Did you notice less thinning of hair?	0%	42%	42%	17%	
15 Hair is easier to style	0%	13%	71%	17%	
16 Scalp feels revitalized	0%	21%	67%	13%	
17 Hair feels clean and weightless	0%	33%	50%	17%	
18 Hair feels stronger	0%	38%	50%	13%	
19 Hair feels more resilient	0%	50%	38%	13%	
20 Scalp feels less itchy	4%	25%	50%	21%	
21 Hair is less brittle	0%	38%	50%	13%	
22 Hair has increased elasticity	0%	46%	42%	13%	
23 Scalp feels nourished	0%	21%	67%	13%	
24 Scalp feels less dry	0%	29%	58%	13%	

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418147 REKZE 24 SERUM - ANTI-HAIR LOSS AND HAIR GROWTH STIMULATING SERUM						
I. ASSESSMENT OF THE PRODUCTS PROPERTIES						
	Definitely no	No	Yes	Definitely Yes		
25	Scalp feels clean	0%	21%	67%	13%	
26	Hair feels smoother	0%	33%	54%	13%	
27	Hair feels softer	4%	42%	38%	17%	
28	Hair feels nourished	0%	29%	50%	21%	
29	Does not weigh down hair	8%	21%	50%	21%	
30	Hair looks denser	0%	46%	42%	13%	
31	Hair looks shinier	0%	25%	58%	17%	
32	Hair has more volume	0%	54%	29%	17%	
33	Hair is less frizzy	4%	29%	50%	17%	
34	Does the serum refresh the scalp?	13%	21%	46%	21%	
35	Does the serum make hair fuller?	0%	25%	63%	13%	
II. MARKETING ASSESSMENT						
	I definitely do not like it	I do not like it	Neutral	I like it	I definitely like it	
36	Overall assessment of the products	4%	8%	17%	54%	17%
	Definitely worse	Worse	Comparable	Better	Definitely better	
37	Product assessment in comparison with the same type of products used before	0%	21%	21%	42%	17%
	I definitely would not buy it	I would not buy it	I do not know if I would buy it, or not	I would buy it	I definitely would buy it	
38	Taking under consideration previously tested properties of the products, what is the probability that you will buy this product?	4%	17%	21%	46%	13%

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REPORT No. 418147/17/JSHR**8. SIGNATURES**

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