

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

Client:	<b>ADR System</b> <b>63-200 Jarocin</b> <b>ul. Św. Ducha 60</b>	Description of the sample ( <i>as per Client's declaration</i> )
Sample reception date:	21.09.2022	ADR SOL POWDER
Test report date:	11.10.2022	

**Dermatological test - Open test (25 subjects, without allergological history)**

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**THE STUDY IS 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

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**LIST OF CONTENTS**

1. Basis of the study
2. Object of the study
3. Qualitative composition of the product
4. Aim of the study
5. Description of volunteers
6. Testing methodology
7. Date of the study
8. Evaluation parameters
9. Results
  - 9.1. Characteristics of study subjects
  - 9.2. Table of skin response
10. Calculated values
11. Interpretation
12. Conclusion
13. Signatures

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**1. BASIS OF THE STUDY**

- Samples delivered by the Sponsor.
- The qualitative composition of the product delivered by the Sponsor.
- The results of microbiological purity of the product provided by the Sponsor (or declaration from the Sponsor about microbiological purity).

The Sponsor is responsible for conformity with the declared quality composition of the product as well as for the microbiological purity test of the delivered samples.

**2. OBJECT OF THE STUDY**

<b>Parameter</b>	<b>Description</b>
Appearance	Powder
Colour	White
Fragrance	Characteristic for raw materials (or fragrance composition)
Packaging	Replacement packaging containing the name and sample number for testing

**3. QUALITATIVE COMPOSITION OF THE PRODUCT**

The qualitative composition was delivered to the Laboratory by the Sponsor before the start of the study.

**4. PURPOSE OF THE STUDY**

The purpose of the study was to assess irritating properties (skin tolerance) of the product on a healthy adult skin, with applied patch test.

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**5. DESCRIPTION OF STUDY SUBJECTS**

The study subjects (25 people) were healthy, with negative history of allergy. General inclusion criteria for the selection of study subjects were the following: healthy men and women over 18 years old, phototype: I-IV on Fitzpatrick scale, Caucasians, skin without irritations and changes requiring pharmacological treatment. General exclusion criteria were the following: volunteers who at the time used any treatment on the skin area subject to the study, volunteers exhibiting or having a known history of acute or chronic dermatological, medical and/or physical conditions that could influence the outcome of the study, pregnant or breastfeeding women or women planning a pregnancy during the study. None of the study subjects reported documented oversensitivity or history of adverse reactions to individual ingredients of the product tested. All the study subjects fulfilled the requirements of inclusion for tests and signed the Informed Consent Form (ICF). Additionally, they were informed on the purpose, methodology of the study and possible adverse effects. The skin at the application area (arms or interscapular area) was healthy, without lesions. The study subjects were advised to exercise caution in handling the applied contact tests.

**6. TESTING METHODOLOGY**

The preparation in the appropriate concentration was applied onto to the skin on the forearm in the area of 3x3 cm. The reading of skin response was performed 15 minutes, 30 minutes, 1 hour, and 24 hours after the test application. Simultaneously, to assure the objectivity of the results of the study and in order to exclude possible reading errors connected with dermal irritations one sample control (control sample with water) was carried out. The results of the study are presented in section 10 of this report. If irritations appeared or persisted 24h after the application, an additional examination took place after 48 hours. Determining the response of the skin, the dermatologist assessed the irritating and sensitising effects of the tested product. The study results might have been influenced by factors such as lifestyle, stress, diet and environmental conditions, etc.

**7. DATE OF THE STUDY**

04.10.2022 – 07.10.2022

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**8. EVALUATION PARAMETERS**

<b>EVALUATION PARAMETERS OF SKIN REACTION</b>	
<b>Erythema</b>	<b>Classification point</b>
No erythema	0
Light erythema	0.5
Erythema and/or papules	1
Erythema and/or papules and/or vesicles	2
Erythema and/or papules and/or vesicles and/or blisters	3
Erythema Bullous and/or ulcerative reaction and/or papules and/or vesicles and/or blisters	4
<b>Edema</b>	<b>Classification point</b>
No edema	0
Very light edema (hardly visible)	1
Light edema	2
Moderate edema (about 1mm raised skin)	3
Strong edema (extended swelling even beyond the application area)	4

Prepared by: Paulina Maciszka, Senior Technician  
 Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
 Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**9. RESULTS**
**9.1. CHARACTERISTICS OF VOLUNTEERS**
**Table 1**

No. of subject	Identification of subject	Beginning of the study	Age	Sex	Phototype	
1	CIE.MA	04.10.2022	61	F	II	
2	CIE.JA	04.10.2022	63	M	II	
3	SLO.BA	04.10.2022	27	M	II	
4	SUC.EW	04.10.2022	57	F	II	
5	KLI.RO	04.10.2022	67	F	II	
6	URB.BA	04.10.2022	64	F	II	
7	WON.ED	04.10.2022	69	M	II	
8	KUR.AN	04.10.2022	49	F	II	
9	JES.MA	04.10.2022	64	F	II	
10	JES.KA	04.10.2022	41	F	II	
11	NOW.DA	04.10.2022	28	M	II	
12	SKO.AL	04.10.2022	28	F	II	
13	SAW.JO	04.10.2022	46	F	II	
14	KAR.MO	04.10.2022	24	F	II	
15	JEZ.MA	04.10.2022	37	F	II	
16	KIE.AN	04.10.2022	38	F	II	
17	KLU.JO	04.10.2022	45	F	II	
18	RYD.WI	04.10.2022	63	F	II	
19	CZE.MI	04.10.2022	67	F	II	
20	BAK.MO	04.10.2022	36	F	II	
21	JER.DA	04.10.2022	56	F	II	
22	BEC.EL	04.10.2022	57	F	II	
23	TRE.MI	04.10.2022	56	F	II	
24	SEP.JA	04.10.2022	41	M	II	
25	ZAM.DO	04.10.2022	50	F	II	
			<b>Min</b>	24	<b>No. F</b>	<b>phototype I</b>
			<b>Max</b>	69	20	0
			<b>Average</b>	49	<b>No. M</b>	<b>phototype II</b>
					5	25
						<b>phototype III</b>
						0
						<b>phototype IV</b>

Prepared by: Paulina Maciszka, Senior Technician  
 Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
 Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

0
---

Table 1. Characteristics of volunteers with a negative history of allergy

**9.2. TABLE OF SKIN RESPONSE**
**Table 2**

No.	Evaluation after 15 minutes of product application		Evaluation after 30 minutes of product application		Evaluation after 1 hour of product application		Evaluation after 24 hours of product application		Evaluation after 48 hours of product application	
	Erythema	Edema	Erythema	Edema	Erythema	Edema	Erythema	Edema	Erythema	Edema
1	0	0	0	0	0	0	0	0	Examination skipped	
2	0	0	0	0	0	0	0	0	Examination skipped	
3	0	0	0	0	0	0	0	0	Examination skipped	
4	0	0	0	0	0	0	0	0	Examination skipped	
5	0	0	0	0	0	0	0	0	Examination skipped	
6	0	0	0	0	0	0	0	0	Examination skipped	
7	0	0	0	0	0	0	0	0	Examination skipped	
8	0	0	0	0	0	0	0	0	Examination skipped	
9	0	0	0	0	0	0	0	0	Examination skipped	
10	0	0	0	0	0	0	0	0	Examination skipped	
11	0	0	0	0	0	0	0	0	Examination skipped	
12	0	0	0	0	0	0	0	0	Examination skipped	
13	0	0	0	0	0	0	0	0	Examination skipped	
14	0	0	0	0	0	0	0	0	Examination skipped	
15	0	0	0	0	0	0	0	0	Examination skipped	
16	0	0	0	0	0	0	0	0	Examination skipped	
17	0	0	0	0	0	0	0	0	Examination skipped	
18	0	0	0	0	0	0	0	0	Examination skipped	
19	0	0	0	0	0	0	0	0	Examination skipped	
20	0	0	0	0	0	0	0	0	Examination skipped	
21	0	0	0	0	0	0	0	0	Examination skipped	
22	0	0	0	0	0	0	0	0	Examination skipped	
23	0	0	0	0	0	0	0	0	Examination skipped	
24	0	0	0	0	0	0	0	0	Examination skipped	
25	0	0	0	0	0	0	0	0	Examination skipped	

Table 2. Results for volunteers with a negative history of allergy

Prepared by: Paulina Maciszka, Senior Technician  
 Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
 Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**10. CALCULATED VALUES**

The following calculated values present the sum of negative reaction (erythema and edema) defined as Average Irritation Index ( $X_{av}$ ).

	<b>Evaluation after 15 minutes of product application</b>	<b>Evaluation after 30 minutes of product application</b>	<b>Evaluation after 1 hour of product application</b>	<b>Evaluation after 24 hours of product application</b>	<b>Evaluation after 48 hours of product application</b>
<b>The sum of negative reaction (the sum of classification points)</b>	0,00	0,00	0,00	0,00	Examination skipped
<b><math>X_{av}</math></b>	0,00				

**11. INTERPRETATION**

The average irritation index ( $X_{av}$ ) was calculated. The product was then classified according to the following table:

<b>Average irritation index (<math>x_{av}</math>)</b>	<b>Class</b>
$X_{av} < 0.50$	Not irritating
$0.50 \leq X_{av} < 2.00$	Slightly irritating
$2.00 \leq X_{av} < 5.00$	Moderately irritating
$5.00 \leq X_{av}$	Highly irritating

Prepared by: Paulina Maciszka, Senior Technician  
 Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
 Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**12. CONCLUSION**

The patch test study was performed under dermatological control on a group of 25 volunteers. The study allowed the investigators to conclude that product ADR SOL POWDER used by volunteers that didn't report documented oversensitivity or a history of adverse reactions to individual ingredients of the tested product, was well tolerated by the skin. In the tested group of volunteers there were no irritations or allergic reactions. The product meets the requirements of compatibility test with the skin (Skin Compatibility Test) and can be classified as NOT IRRITATING.

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)

**TEST REPORT No. 424461/22/GDA/Z1**

(Replaces the report no 424461/22/GDA, made on 07.10.2022)

**13. SIGNATURES**

<b>Senior Technician</b>	<b>Paulina Maciszka</b>	
<b>Dermatologist - venereologist</b>	<b>Karolina Osiecka (2487308)</b>	
<b>Project Manager</b>	<b>Iwona Świniańska</b>	

\*The Sponsor is responsible for conformity with the declared quality composition as well as microbiological purity of the delivered samples.

Attention: The released opinion of dermatological compatibility does not apply to people who are allergic to any ingredient of the tested product.

Prepared by: Paulina Maciszka, Senior Technician  
Authorized by: Karolina Osiecka (2487308), Dermatologist - venereologist  
Iwona Świniańska, Project Manager (qualified electronic signature)

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

The results relate to the analysed samples only. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl)