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Warsaw, 25.09.2020

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REPORT FROM SPF in-vivo RESEARCH

B – 72994/1215/20/SPF

[REDACTED] *Fényvédő Krém / Sunscreen Cream*

submitted by

[REDACTED]

**Basis for
1. conducting the
research**

- Order of 19.08.2020 with the granted No.B-72994/1215/20/SPF and samples of the tested product.
- Material for the tests: samples of the product supplied by the Client.
- Qualitative composition of the product according to INCI enclosed by the Client.

INCI:

Water
Butylene Glycol
Butyloctyl Salicylate
Glycerin
Diethylamino Hydroxybenzoyl Hexyl Benzoate
Hydrogenated Polyisobutene
Acrylates Copolymer
Silica
1,2-Hexanediol
Niacinamide
Dibutyl Adipate
Ethylhexyl Triazone
Polyglyceryl-3 Methylglucose Distearate
Cetearyl Olivatate
Cetearyl Alcohol
Dicaprylyl Carbonate
Sorbitan Olivatate
Glyceryl Stearate
Methyl Glucose Sesquistearate
Sorbitan Stearate
Centella Asiatica Extract
Madecassoside
Asiaticoside
Madecassic Acid
Asiatic Acid
Pentaerythrityl Tetra-Di-T-Butyl Hydroxyhydrocinnamate
Disodium EDTA
Adenosine
Hyaluronic Acid
Caprylyl Glycol
Ethylhexylglycerin
Tocopherol

- Reference Sunscreen Formulation P2 prepared and certified according to the ISO 24444 “Cosmetics -- Sun protection test methods -- In vivo determination of the sun protection factor (SPF)”.

2.	Characteristics of the product	<p>Sample for the laboratory test:</p> <p>Substitute package: plastic jar marked with the product name.</p> <p>Appearance: homogeneous, shiny emulsion.</p> <p>Color: yellow.</p> <p>Odor: faint.</p>
3.	Scope of the research	<p><i>Determining the value of sun protection factor SPF with the use of ISO 24444 “Cosmetics – Sun protection test methods -- In vivo determination of the sun protection factor (SPF)”.</i></p>
4.	Characteristics of UV source	<p>Solar simulator SOLAR Light Co. XPS200 Xe (xenon arc lamp)</p> <p>UVB Detector PMA 2105 S/N:7796</p> <p>Wavelength UV range: 290 – 400nm</p>
5.	The amount of product spread on 1cm² of skin	<p>(2,00 ± 0,05) mg</p>
6.	Terms	<p>SPF – sun protection factor</p> <p>MED_u – minimum dose of UVB causing reddening of the skin which was unprotected after 16-24h from irradiation</p> <p>MED_p – minimum dose of UVB causing reddening of the skin which was protected after 16-24h from irradiation</p>
7.	The selection of volunteers for the research	<p>The researches were conducted under control of a MD Dermatologist on 10 volunteers in the Application and Dermatological Researches Team ITA– TEST.</p> <p><i>The selection of volunteers was made by the dermatologist in accordance with the ISO 24444 and standard working procedures ITA – TEST no. 01/DA ed. 2 of on 12.02.2013 and 24 /DA ed. 4 of on 22.02.2013 considering the inclusion and non-inclusion criteria.</i></p>

		<p>Before the beginning of the research, the body skin of all people taking part in it was thoroughly examined by the dermatologist; apart from that, interviews with all of the volunteers were performed in order to eliminate the persons, who cannot participate in the researches of this type.</p> <p>The volunteers were clearly informed, verbally and in writing, regarding the nature of the study, the timetable, constraints and possible risks. They all gave their written informed consent before participation in the study.</p> <p>The volunteers included in SPF test were only phototypes II or III according to Fitzpatrick and had $ITA^0 > 28^0$ (measured by colorimetric methodology Spectrophotometer KONICA MINOLTA 600d) and were untanned on the test area.</p> <p><i>At the beginning of the research the skin of all volunteers had no morbid symptoms and revealed no tendency for irritation.</i></p>
8.	The method of conducting research	<p>The study was conducted in accordance with the methodology referred to in the PN-EN ISO 24444 standard "Cosmetics - Sunscreen testing methods - Determination of the sun protection factor (SPF) in vivo".</p>
9.	Duration of the research	<p>The researches which lasted from 19.08.2020 to 25.09.2020 were finished by all 10 persons taking part in the tests.</p>

RESULTS OF THE RESEARCH:

*On the basis of researches performed with the use of SPF in-vivo method
the mean value of sun protection factor of the tested*

██████████ *Fényvédő Krém / Sunscreen Cream*

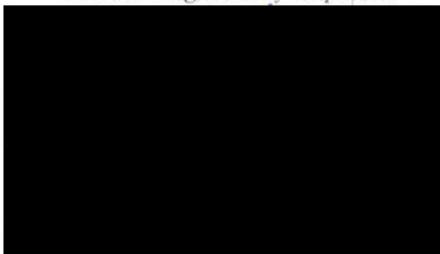
has been determined, which amounts to $19,0 \pm 1,0$

*Name and signature of the person performing the
research and compiling the report from the
research*

Specialistyczne Laboratorium Badawcze



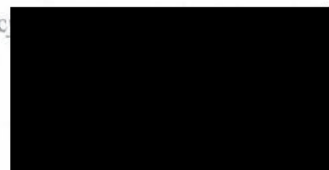
Name and signature of the person



Dermatologist-allergologist, MD.

*Name, office and signature of the person
authorizing the report*

Spec ██████████ wcze



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The report receive:

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Copy No 2 – Archives of the Specialist Testing Laboratory „ITA – TEST”

The results of the research relate exclusively to the testing product.

END OF REPORT

Report from SPF in-vivo research **ITA – TEST B- 72994/1215/20/SPF**
Annex No. PO-06-07 Edition No. 1, valid from: 04.11.2019

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SPF in-vivo results

Name of product: ██████████ Fényvédő Krém / Sunscreen Cream

Instrument: Solar Simulator SOLAR XPS200 Xe

No	Age/Gender	Phototype	Skin ITA ⁰	MEDu	MEDp	MEDp	SPFi	SPFi
					of standard P2	of tested product		
				mJ/cm ²				
1	38/W	III	46	33,60	489,20	639,70	19,0	14,6
2	50/W	II/III	47	30,00	466,70	537,60	17,9	15,6
3	25/W	II	51	22,40	356,30	418,90	18,7	15,9
4	25/W	II	50	25,10	410,50	449,80	17,9	16,4
5	28/W	II	54	22,40	343,70	401,40	17,9	15,3
6	29/W	II	52	25,10	393,10	449,80	17,9	15,7
7	50/W	II	51	25,10	393,60	562,20	22,4	15,7
8	56/W	II	54	22,40	336,00	421,50	18,8	15,0
9	60/W	II	50	25,10	388,30	472,30	18,8	15,5
10	42/W	III	44	33,60	526,80	677,40	20,2	15,7
Mean SPF							19,0	15,5
STDV							1,4	0,5

FINAL RESULT for product

SPFn= 19,0
STDV= 1,4
c= 1,0
CI[%]= 5,3
95%CI= 18,0-20,0

SPFn - mean SPF for 10 subjects

STDV - standard deviation

95%CI - confidence interval of mean SPF

C - uncertainty of measurement

