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REPORT FROM IN VITRO SPF RESEARCH

No. B - 72717 /1207PF /20

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NAME OF THE TESTED PRODUCT: ██████████ **Fényvédő Krém / Sunscreen Cream**

Order Number: 72717/20

Order Date: 29 July 2020

SPF FACTOR VALUE DECLARED BY THE CLIENT: 15

Client:



The way of collecting and/or delivery of product for testing:

Samples were delivered by Client

Characteristics of product.

Substitute package – plastic container marked with an informational label with the name of the product.

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

Aqua, 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 Oliviate, Cetearyl Alcohol, Dicaprylyl Carbonate, Sorbitan Oliviate, Glyceryl Stearate, Methyl Glucose Sesquistearate, Sorbitan Stearate, Centella Asiatica (Gotu Kola) Extract, Madecassoside, Asiaticoside, Madecassic Acid, Asiatic Acid Pentaerythrityl Tetra DI-T-Butyl Hydroxyhydrocinnamate, Disodium EDTA, Adenosine, Hyaluronic Acid Caprylyl Glycol, Ethylhexylglycerin, Tocopherol.

Sample Number: 1207 SPF

Date – testing started: 29 July 2020

Date – testing finished: 31 July 2020

Date of report: 03 August 2020

THE AIM/SCOPE OF THE RESEARCH: Denotation of SPF factor by in vitro method with the use of spectrophotometer SPF290/S Optometrics, employing xenon lamp as the source of light and *PMMA HD6* as a substrate.

TEST RESULTS

No.	Parametr	Unit	Result	Standard deviation	Method
1.	SPF Factor	-	15,8	2,3	PB 69/ChM ITA – TEST cd. 2 of on 02.06.2008
2.	UVA/UVB	-	0,72	0,01	
3.	Erythermal UVA PF	-	9,5	1,0	
4.	Critical wavelength (λ_{crit})	nm	375,7	0,5	
5.	UVA/UVB evaluation in Boots range	-	*** (3) GOOD	-	* minimum ** moderate *** good **** very good ***** ultra (according to range delivered by Optometrics)

Tested product was applied on PMMA HD6 in the quantity of $28,5 \pm 0,5$ mg

EVALUATION, DISCUSSION OF THE RESEARCH RESULTS, CONCLUSIONS

On the basis of spectrophotometric research in *in vitro* conditions using Diffey & Robson method, with the employment of Optometrics SPF 290S spectrophotometer, it has been determined, that the sun protection factor SPF in the tested product is **15,8 ± 2,3**


According to the Boots range, expressed in UVA/UVB rate regarding the relative protection of the skin against the sun radiation, the tested product received **good**.

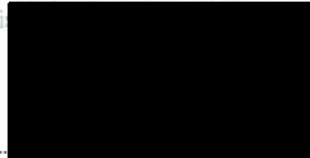
The results presented above, received with the use of widely accepted *in vitro* method, confirm the recipe protection against the sun and determine the SPF factor in the *in vitro* conditions.

In some cases the results received by *in-vitro* method may differ substantially from the results received by *in-vivo* method. Therefore, especially for products that protect the skin during getting sun tan, the value of SPF factor should be also determined by *in-vivo* examination.

Declaration of the research supervisor:

I declare, that the researches were performed in accordance with the rules of Good Professional Practice and that the finishing report is consistent with the source data.

Name and signature of the person preparing the test report:
 Specjalistyczne Laboratorium Badawcze
 ita-test


Name and signature of the person authorizing the test report:
 Specjali

 Date and signature

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The results of the research relate only to the tested sample

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