

PRILOGA 1: Preskus mikrobiološke kakovosti



REPORT OF ANALYSIS No. 222108/18/JSHS

Client Podjetje XY, Ana Novak s.p.		Sample description (according to declaration of Client) Krema za telo CVET Sample without any visible damages
Sample received:	2018-05-23	Order of 2018-05-23 The samples were delivered by Client
Analysis completed:	2018-05-30	
Report dated:	2018-05-30	

Test	Method	Unit	Result	Criteria	Parameter compliant / non-compliant
* Total aerobic mesophilic bacteria ¹⁾	PN-EN ISO 21149:2017-07	cfu/g	5,0x10 ⁴	≤1,0x10 ³	compliant
* Enumeration of yeast and mould ¹⁾	PN-EN ISO 16212:2017-08	cfu/g	<1,0x10 ¹	≤1,0x10 ³	compliant
* Detection of Candida albicans ¹⁾	PN-EN ISO 18416:2016-01		absent in 1g	absent in 1g	compliant
* Detection of Escherichia coli ¹⁾	PN-EN ISO 21150:2016-01		absent in 1g	absent in 1g	compliant
* Detection of Pseudomonas aeruginosa ¹⁾	PN-EN ISO 22717:2016-01		absent in 1g	absent in 1g	compliant
* Detection of Staphylococcus aureus ¹⁾	PN-EN ISO 22718:2016-01		absent in 1g	absent in 1g	compliant

¹⁾ PN-EN ISO 17516: 2014-11 Cosmetics - Microbiology - Microbiological limits.

END OF REPORT

PRILOGA 2: Izzivni preskus učinkovitosti konzerviranja



REPORT OF ANALYSIS No. 222109/18/JSHS

Client Podjetje XY, Ana Novak s.p.	Sample description (according to declaration of Client) Krema za telo CVET Sample without any visible damages
Sample received: 2018-05-23	Order of 2018-05-23 The samples were delivered by Client
Analysis completed: 2018-07-02	
Report dated: 2018-07-02	

Test	Method	Unit	Result
* Assessment of effectiveness and quality of the preservation of cosmetic product - Challenge Test ¹⁾	PN EN ISO 11930:2012		1)

¹⁾ The results of the analysis in attachment No 1 to the report.

END OF REPORT



ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 222109/18/JSHS

Analysis period	23-05-2018 - 02-07-2018
Neutralizer	Eugon LT 100 liquid broth
Incubation temperature of Petri dishes	32,5 ± 2,5 ⁰ C –48 h - 72 h for bacteria and for <i>Candida albicans</i> 22,5 ± 2,5 ⁰ C -3 days- 5 days for <i>Aspergillus brasiliensis</i>
Culture media	Tryptic soy agar (TSA) for bacteria Sabouraud dextrose agar medium (SDA) for <i>C. albicans</i> Potato dextrose agar (PDA) for <i>A. brasiliensis</i>
Test strains	<i>Escherichia coli</i> ATCC 8739 <i>Staphylococcus aureus</i> ATCC 6538 <i>Pseudomonas aeruginosa</i> ATCC 9027 <i>Candida albicans</i> ATCC 10231 <i>Aspergillus brasiliensis</i> ATCC 16404

ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 222109/18/JSHS

DEMONSTRATION OF THE NEUTRALIZER EFFICACY

Results of the demonstration of the neutralizer efficacy for each test and concentration of the formulation for which the neutralization in demonstrated N_{vf} - number of micro-organisms present in the test mixture with the neutralizer and formulation N_{vn} - number of micro-organisms	Micro-organisms	N_{vf} cfu/g	N_{vn} cfu/g	$N_{vf} \geq 0,5N_{vn}$	inoculum control N_v
	<i>Escherichia coli</i>	$4,9 \times 10^1$	$7,0 \times 10^1$	>0,5	$7,0 \times 10^1$
	<i>Staphylococcus aureus</i>	$4,2 \times 10^1$	$6,5 \times 10^1$	>0,5	$6,4 \times 10^1$
	<i>Pseudomonas aeruginosa</i>	$5,4 \times 10^1$	$7,3 \times 10^1$	>0,5	$7,4 \times 10^1$
	<i>Candida albicans</i>	$4,3 \times 10^1$	$6,0 \times 10^1$	>0,5	$6,0 \times 10^1$
	<i>Aspergillus brasiliensis</i>	$3,9 \times 10^1$	$5,6 \times 10^1$	>0,5	$5,8 \times 10^1$

INOCULUM

Quantity of the initial numbers of micro-organisms-N $N_0 = N/100$	Micro-organisms	N cfu/g	N_0 cfu/g
	<i>Escherichia coli</i>	$7,1 \times 10^7$	$7,1 \times 10^5$
	<i>Staphylococcus aureus</i>	$6,7 \times 10^7$	$6,7 \times 10^5$
	<i>Pseudomonas aeruginosa</i>	$7,4 \times 10^7$	$7,4 \times 10^5$
	<i>Candida albicans</i>	$6,0 \times 10^6$	$6,0 \times 10^4$
	<i>Aspergillus brasiliensis</i>	$5,7 \times 10^6$	$5,7 \times 10^4$

ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 222109/18/JSBS

RESULTS

Microorganisms	Log reduction					
	T 7	criteria	T 14	criteria	T28	criteria
<i>Escherichia coli</i>	4,85	≥ 3	4,85	≥ 3 and NI	4,85	≥ 3 and NI
<i>Staphylococcus aureus</i>	4,83	≥ 3	4,83	≥ 3 and NI	4,83	≥ 3 and NI
<i>Pseudomonas aeruginosa</i>	4,87	≥ 3	4,87	≥ 3 and NI	4,87	≥ 3 and NI
<i>Candida albicans</i>	3,78	≥ 1	3,78	≥ 1 and NI	3,78	≥ 1 and NI
<i>Aspergillus brasiliensis</i>	3,76	-	3,76	≥ 0	3,76	≥ 1

$R_x = \lg N_0 - \lg N_x$

N_0 - number of micro-organisms inoculated at time t_0

N_x - number of surviving micro-organisms at each sampling time t_x

NI- no increase in the count from the previous contact time T7,T14,T28 days

Conclusion: The test confirmed the efficacy of the antimicrobial protection of a cosmetic product.