QACS Ltd.
QUALITY ASSURANCE & CONTROL SYSTEMS

THE CHALLENGE TEST LABORATORY
Quality Assurance & Control Systems Ltd.,1 Antigonis St., 144 51, Metamorfosi, Greece
Tel: +30 210 2934745 ÅFax: +30 210 2934606 Åemail: info@qacs.gr Åwebsite: www.qacs.gr

Certificate ID : **2014-3519 / 14 01 01489**

PRESERVATION EFFICACY TEST
CERTIFICATE OF ANALYSIS

COMPANY NAME : ELZ KOZMETIK SAC VE CILT BAKIM URUN. ITH. IHR. TIC. LTD. STI.
PRODUCT DESCRIPTION : Q&R REVITALIZING EYE SERUM - GOZALTI SERUMU
LOT-BATCH NUMBER : 0001
SAMPLER : CLIENT
START DATE : 09/06/2014
TEST MATERIAL REMARKS :

MICROBIOLOGICAL TEST ON RECEIPT

PARAMETER	*REPORT*	*UNITS*
Total Microbial Count	<10	cfu/g
Moulds & Yeasts	<10	cfu/g
Pseudomonas aeruginosa	Absence per g	
Staphylococcus aureus	Absence per g	
Candida albicans	Absence per g	

PROTOCOL

The test consists of challenging the preparation, with a prescribed inoculum of suitable micro-organisms, storing the inoculated preparation at ambient temperature, avoiding sunlight, withdrawing samples from the container at specified intervals of time and counting the organisms in the samples so removed. The preservative properties of the preparation are adequate if, in the conditions of the test, there is a significant fall or no increase, as appropriate, in the number of micro-organisms in the inoculated preparation after 2, 7, 14 and 28 days.

CHALLENGE TEST OF A COSMETIC PRODUCT ACCORDING TO EUROPEAN PHARMACOPOEIA, CURRENT

PARAMETER	*ATCC*	*LOT*	*INOCULATION*	*0 TIME*	*2nd DAY*	*7th DAY*	*14th DAY*	*28th DAY*
Pseudomonas aeruginosa	9027	4844461	6.8E+05	4.2E+05	<100	<10	<10	<10
Staphylococcus aureus	6538	4852071	5.4E+05	5.3E+05	4.7E+03	<10	<10	<10
E. coli	8739	4833521	5.2E+05	6.4E+05	<100	<10	<10	<10
Candida albicans	10231	4433341	5.0E+05	3.6E+05	<100	<10	<10	<10
Aspergilus brasiliensis	16404	3922541	3.8E+04	5.7E+04	2.5E+03	8.2E+01	1.8E+01	<10

Units in cfu/g

CONCLUSION : Satisfactory, meet the relevant A-criteria

For the laboratory

D. Melissos
Chemist MSc

ESYD
Testing
No of Certificate 195-4

CRITERIA

European Pharmacopoeia, Criteria A (B), limits in log reduction units, where NI: No Increase.

TIME	2 DAYS	7 DAYS	14 DAYS	28 DAYS
BACTERIA	2	3	- (3)	NI
MOULDS & YEASTS	-	-	2(1)	NI

This document has been electronically signed by those names that appear on this report and are the authorized signatories.

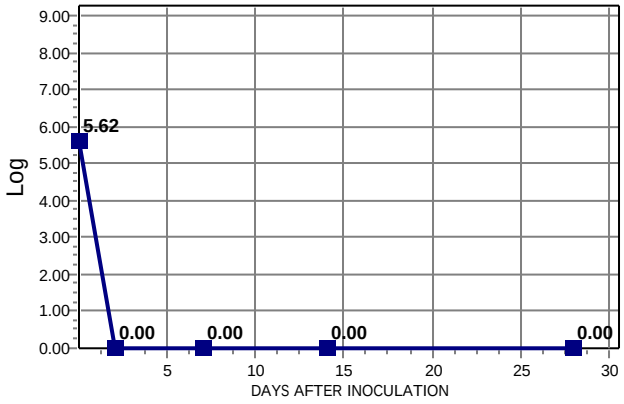
Results refer to the sample as received and analysed on the specific period. These results should not be reproduced other than in full and only with the written approval of the laboratory.

Certificate ID : **2014-3519 / 14 01 01489**

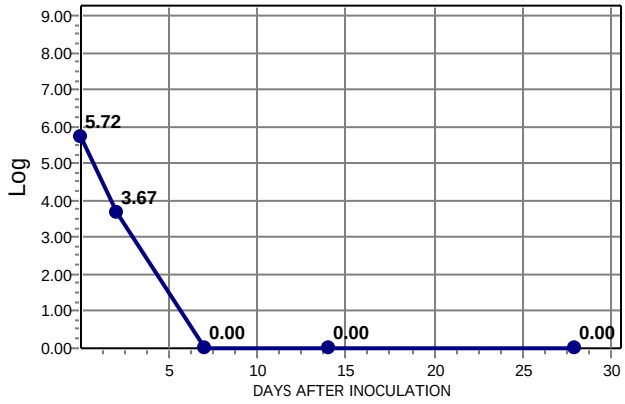
(continuing from previous page)

LOG REDUCTION CHARTS

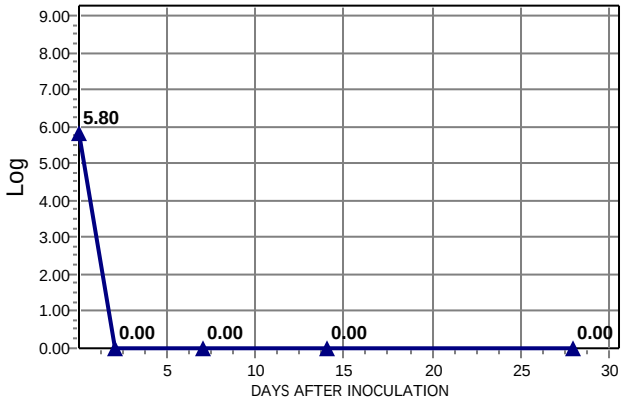
Pseudomonas aeruginosa



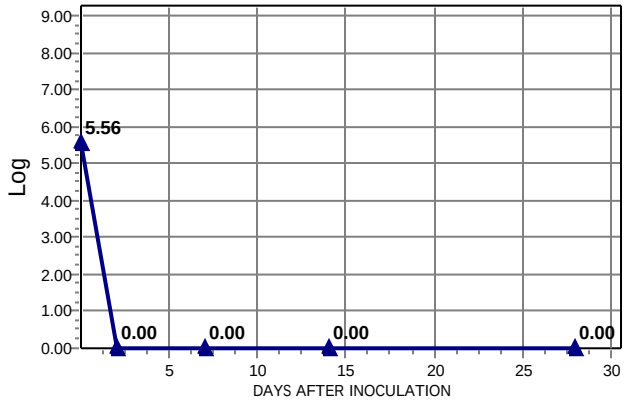
Staph. aureus



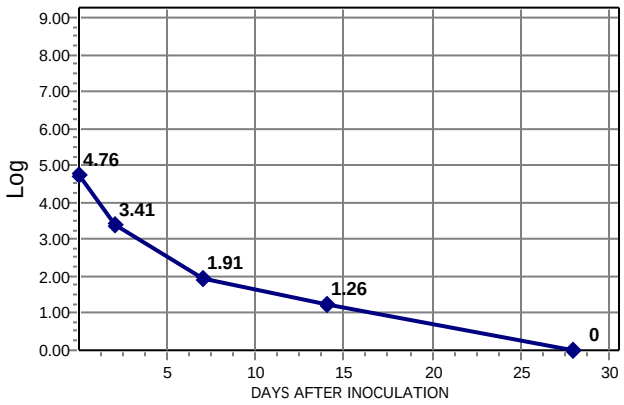
E. coli



Candida albicans



Aspergilus brasiliensis



Testing

No of Certificate 195-4

End report

Results refer to the sample as received and analysed on the specific period. These results should not be reproduced other than in full and only with the written approval of the laboratory.