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MICROBIOLOGICAL CERTIFICATE OF ANALYSIS
PRESERVATIVE EFFICACY TEST (PCPC)

To: C. Schmitz Drawing Salve LLC.

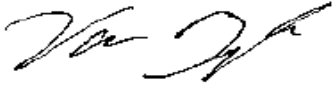
Date Received: Jun 23, 2017
COA No.: P-CSH071817-13
COA Date: August 23, 2017
P.O. No.: N/A
Page: 1 of 3

Sample Description: *C. Schmitz Drawing Salve*

Sample Batch/Lot #: *N/A*

ACCU Lab Reference #: *7456250*

Notes: Amendment to P-CSH071817-13p21

Approved by: 
Vano Baghdasarian, Laboratory Director

ISO 17025 Standard

The results of this test relate only to the samples tested. This test report shall not be reproduced except in full, without written approval of the lab. ACCU Labs shall have no liability to anyone with respect to any interpretations or uses of the COA report, decisions made, or actions taken as a result of or based on the data reported.

Abbreviations: TPC: Total Plate Count; TNTC: Too Numerous to Count; CFU: Colony Forming Units

Document Information

File Name and Version: LF-510-11 Certificate of Analysis – PET (PCPC) v.01 | Effective Date: 2/22/17 | Status: Approved by Vano Baghdasarian



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PRESERVATIVE EFFICACY TEST (PCPC)

Sample Description: *C. Schmitz Drawing Salve*
 Sample Batch/Lot #: *N/A*

Microbial Analysis:	Test Method	Results:
Total Plate Count (TPC)	USP	<10 CFU/plate

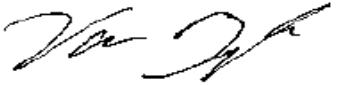
Microorganisms:	Inoculum/g	Recovery (CFU/gram)				
		Initial	Day 7	Day 14	Day 21	Day 28
<i>E. coli</i> (ATCC 8739)	7.5×10^5	TNTC	<10	<10	<10	<10
<i>S. aureus</i> (ATCC 6538)	8.9×10^5	TNTC	<10	<10	<10	<10
Methicillin-resistant <i>S. aureus</i> (ATCC 49128)	8.2×10^5	TNTC	<10	<10	<10	<10
<i>Ent. Cloacae</i> (ATCC 13047)	6.0×10^5	TNTC	<10	<10	<10	<10
<i>Ps. aeruginosa</i> (ATCC 9027)	6.7×10^5	TNTC	<10	<10	<10	<10
<i>B. cepacia</i> (ATCC 25416)	9.8×10^5	TNTC	<10	<10	<10	<10
<i>Ps. putida</i> (ATCC 49128)	9.3×10^5	TNTC	<10	<10	<10	<10
<i>C. albicans</i> (ATCC 10231)	1.4×10^5	TNTC	<10	<10	<10	<10
<i>A. brasiliensis</i> (ATCC 16404)	1.2×10^5	TNTC	<10	<10	<10	<10

Acceptance Criteria (PCPC):

There should be at least a 99.9% reduction of vegetative bacteria and 90% reduction of yeast and mold within 7 days following microbial inoculation and no increase for the duration of the test period.

Conclusion:

The formula meets the acceptance criteria for a passing test result. The product does not sustain and/or support microbial growth/proliferation. The preservatives are effective in eliminating microbial inoculated from the product.

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Validation of Preservative Neutralization

Sample Description: *C. Schmitz Drawing Salve*
Sample Batch/Lot #: *N/A*

Microorganisms:	Sample Dilution	Inoculum Level	Recovery	Percent Recovery
<i>E. coli</i> (ATCC 8739)	1 : 10	59 CFU / Plate	58 CFU / Plate	98
<i>S. aureus</i> (ATCC 6538)	1 : 10	43 CFU / Plate	39 CFU / Plate	91
Methicillin-resistant <i>S. aureus</i> (ATCC 49128)	1 : 10	41 CFU / Plate	32 CFU / Plate	78
<i>Ent. Cloacae</i> (ATCC 13047)	1 : 10	50 CFU / Plate	41 CFU / Plate	82
<i>Ps. aeruginosa</i> (ATCC 9027)	1 : 10	73 CFU / Plate	68 CFU / Plate	93
<i>B. cepacia</i> (ATCC 25416)	1 : 10	31 CFU / Plate	29 CFU / Plate	94
<i>Ps. putida</i> (ATCC 49128)	1 : 10	62 CFU / Plate	54 CFU / Plate	87
<i>C. albicans</i> (ATCC 10231)	1 : 10	68 CFU / Plate	66 CFU / Plate	97
<i>A. brasiliensis</i> (ATCC 16404)	1 : 10	57 CFU / Plate	54 CFU / Plate	95

Conclusion:

The antimicrobial preservative system in the formula was successfully neutralized under the test conditions. The sample does not possess an inherent antimicrobial activity to prevent microorganisms from growing. This allows the recovery of inoculated microorganisms that may have tolerated and survived the antimicrobial activity of the preservative system in the formula.

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