1755 Victory Blvd. Glendale, CA 91201
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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**

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

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

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To: C. Schmitz Drawing Salve LLC.

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

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
***E. coli* (ATCC 8739)**	***7.5 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***S. aureus* (ATCC 6538)**	***8.9 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
Methicillin-resistant S. aureus (ATCC 49128)	***8.2 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***Ent. Cloacae* (ATCC 13047)**	***6.0 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***Ps. aeruginosa* (ATCC 9027)**	***6.7 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***B. cepacia* (ATCC 25416)**	***9.8 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***Ps. putida* (ATCC 49128)**	***9.3 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***C. albicans* (ATCC 10231)**	***1.4 x 10^5***	TNTC	***<10***	***<10***	***<10***	***<10***
***A. brasiliensis* (ATCC 16404)**	***1.2 x 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.

Approved by: _____
Vano Baghdasarian, Laboratory Director

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

Approved by: _____
Vano Baghdasarian, Laboratory Director