

Consumer Product Testing

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Person in charge Ms A. Kordan - 6872 - 6831 Client support Ms L. Raschdorf

> Report date 09.02.2024 Page 1/1

Analytical report AR-24-JR-003042-01



Sample Code 799-2023-00026679

Fitodenta Oromuscosal Relief Spray Forte Reference

Client sample code 1 Purchase order code N/A

02/2023-1ORF Lot-no.

Number of received Samples

Ms. Evelina Marcevičienė Ordered by Submitted by Ms. Evelina Marcevičienė

UPS Carrier

21.11.2023 Reception date

Start/end of analyses 22.11.2023 / 23.01.2024

TEST RESULTS

00000 **Minimal Inhibitory Concentration (MIC)**

Subcontracted to a Eurofins laboratory

Minimal Inhibitory Concentration (MIC) see attachment

Signature

Group Leader Customer Service Cosmetic/Detergent/Hygiene Products (Adelina Kordan)

The test results refer exclusively to the test sample provided by the customer and the scope of the tests performed.

The information about "Reference", "Client sample code", "Purchase order code", "Lot-no.", "Ordered by" and "Submitted by" were provided by the customer and may have an influence on the validity of the test results and the assessment of the results. If a conformity statement is made, the expanded measurement uncertainty (k=2) is deducted by default when a limit value is exceeded. Any publication of this report requires written permission. An excerpt publication is not allowed. Eurofins CPT GmbH · Am Neulander Gewerbepark 4 · D-21079 Hamburg
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Test Report STULV23AA3651-1

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Sponsor	Eurofins Consumer Product Testing GmbH Am Neulaender Gewerbepark 4 DE - 21079 Hamburg Germany						
TEST METHOD	 CLSI M45 Methods for Antimicrobial Dilution and Disk Susceptil of Infrequently Isolated or Fastidious Bacteria CLSI M07 - Methods for Dilution Antimicrobial susceptibility tes that growth Aerobically; Approved Guideline – 11th, Ed. 						
TEST ITEM							
Matrix of the product		Cosmetics					
PRODUCT NAME		OROMUCOSAL RELIEF SPRA	Y				
ACTIVE INGREDIENT		Not Provided					
STORAGE		Room Temperature					
HAZARD INFORMATION		Not Provided					
ANALYZED SAMPLE							
Ватсн		02/2023-1ORF					
CODE		Not Provided					
MANUFACTURING DATE	Not Provided						
EXPIRY DATE	Not Provided						
PARCEL REGISTRATION NUMBER	IP-LV-2023327-ALI						
RECEIVING DATE	23/11/2023						
MATERIAL ITEM ALIQUOT	LV-MAT-PBEP-23-340-0D57:a						
ANALYSIS STARTING DATE	09-Jan-2023	ANALYSIS ENDING DATE	12-Jan-2023				



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EXPERIMENTAL DESIGN

Minimal Inhibitory Concentration (MIC) is defined as the highest dilution (or the lowest concentration) of antimicrobial agent that inhibits the growth of test microorganism after 24 h under a standardized set of conditions.

On the test items, a study has been performed in order to define the Minimal Inhibitory Concentration (MIC), against Staphylococcus aureus ATCC6538, as Sponsor's request.

Study performed consist of a test that combines a disk diffusion pattern with the determination of Minimum Inhibitory Concentration (MIC).

Plate of culture of bacterial suspension on Mueller Hinton Agar (MHA) has been prepared, by using the sterile cotton swab; then filter paper discs of about 6 mm in diameter was added with 50 µl of test item dilutions and then put on to the inoculated agar plate then incubated at 37±1°C for 24 hours.

After incubation, bacterial growth becomes visible on the plate, and inhibition halo is seen at inhibitory concentration.

Test has been done in three independent replicas, twice each.

EXPERIMENTAL CONDITIONS

The Test Item has been tested neat and at eleven serial two-fold dilutions, according to CLSI. Minimal Inhibitory Concentration (MIC) was performed by agar diffusion method.

TEST STRAINS	Staphylococcus aureus ATCC6538
REAGENTS	The validity of media and reagents have been verified according to Internal procedure. - Buffered Peptone water (BPW) - Tryptone Soy Broth (TSB) - Muller Hinton Agar Calcium Adjusted (MHBCA) - Dimethyl sulfoxide (DMSO) - Tryptone Soy Agar (TSA) - filter paper discs about 6 mm in diameter
EQUIPMENT	The validity of instruments and equipment has been assured following internal procedures before starting the analyses. Standard microbiology laboratory equipment has been used: - Laminar flow filtered work area - Micropipettes - Thermostat at 37±1°C



BioPharma Product Testing

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	Inocu	lum	prep	aration
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Day prior the test, fresh culture of bacterial strain has been grown on TSA slant at $37\pm1^{\circ}$ C for 24 hours. Five well-isolated colonies from the agar plate culture have been transferred into tryptic soy broth (TSB) tube then incubated at $37\pm1^{\circ}$ C for 2-6 h to achieves a suspension approximately $1-2\times10^{8}$ cfu/mL

Assay sample preparation

The Test Item has been tested neat and at eleven serial two-fold dilutions in DMSO, according to CLSI

Inoculation

ASSAY

Two plates (test in twice) using swab impregnated with the inoculum suspension 90 mm plates have been streaked on the entire agar surface three times, rotating the plate 60 degrees each time to evenly distribute the inoculum. Plates have been allowed dry for approximately 15 to 20 minutes.

Assav

Test has been performed in three independent replicates.

Each replicate has been performed in twice.

Plates have been incubated for 24 hours at 35±1°C.

Following incubation, the zones of inhibition has been observed and recorded.

ASSAY VALIDITY CRITERIA

Assay validity criteria were satisfied when:

Positive Control shows homogeneous growth.

Negative Control (diluent) doesn't show growth.

Negative Control (Test Item dilution) doesn't show growth.

Calculation of the viable count (cfu/g)

The viable microorganism concentration in inoculum has been calculated applying the following formula:

 $N(cfu/ml) = \frac{c}{(n_1 + 0.1n_2)d}$

CALCULATION

where:

c = sum of colonies counted on all countable plates
n₁ = number of counted plates in the lower dilution
n₂ = number of counted plates in the higher dilution
d = dilution factor corresponding to the lower dilution

The counting was performed using the number of colonies counted on Petri plates.

INTERPRETATION OF RESULTS

The highest dilution (or the lowest concentration) of Test Item that inhibits the growth of test microorganism after 24 h under a standardized set of conditions is considered the MIC value.

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Df 1 2 4 8 16 32 64 128	Tube Volume (ml) 15,0 10,0 5,0 2,5 10,0 5,0 2,5	Source 1 1 1 1 8 8	Added to + + + + + + + + + + + + + + + + + +	DMSO Volume (ml) 0 10 15 17,5 10	1.2 >	serie II +	II Rep Inoculum 1.5 > Serie I +	Serie II +	1.1 2	Serie II
1 2 4 8 16 32 64	Volume (ml) 15,0 10,0 5,0 2,5 10,0 5,0	1 1 1 1 8 8	+ + + + + +	Volume (ml) 0 10 15 17,5 10	1.2 x Serie I +	Serie II +	Inoculum 1.5 > Serie I +	Serie II	1.1) Serie I	< 10 ⁸ Serie II
1 2 4 8 16 32 64	Volume (ml) 15,0 10,0 5,0 2,5 10,0 5,0	1 1 1 1 8 8	+ + + + + +	Volume (ml) 0 10 15 17,5 10	+	Serie II +	1.5 > Serie I +	Serie II	1.1 x	Serie II
2 4 8 16 32 64	(ml) 15,0 10,0 5,0 2,5 10,0 5,0	1 1 1 1 8 8	+ + + + + +	0 10 15 17,5	+	+	+	Serie II	Serie I	Serie II
2 4 8 16 32 64	10,0 5,0 2,5 10,0 5,0	1 1 1 8 8	+ + + + +	10 15 17,5 10	- - - +	- - - +	- - - +	- - -	- - -	- - -
2 4 8 16 32 64	10,0 5,0 2,5 10,0 5,0	1 1 1 8 8	+ + + + +	10 15 17,5 10	- - - +	- - +	- - - +	-	-	_
4 8 16 32 64	5,0 2,5 10,0 5,0	1 1 8 8	+ + + +	15 17,5 10	- - +	- - +	- - +	-	-	_
8 16 32 64	2,5 10,0 5,0	1 8 8	+	17,5 10	-+	+	- +	-	-	_
16 32 64	10,0 5,0	8	+	10	+	+	+			-
32 64	5,0	8						+	+	
64			+	15						T
_	2,5					Т	+	+	+	+
120		8	+	17,5	+	+	+	+	+	+
128	10,0	64	+	10	+	+	+	+	+	+
256	5,0	64	+	15	+	+	+	+	+	+
512	2,5	64	+	17,5	+	+	+	+	+	+
1024	10,0	512	+	10	+	+	+	+	+	+
2048	5,0	512	+	15	+	+	+	+	+	+
Legenda: Df: Dilution factor -: no growth (Inhibition) +: growth (no inhibition)										
On the basis of obtained results, interpreted according to CLSI M45, can be stated that Test Item "OROMUCOSAL RELIEF SPRAY" has antimicrobial activity defined										
-: no growth (Inhibition) +: growth (no inhibition) On the basis of obtained results, interpreted according to CLSI M45, can be stated that Test Item "OROMUCOSAL RELIEF SPRAY" has antimicrobial activity defined as Minimal Inhibitory Concentration (MIC) until a 1:8 dilution factor against									pasis of obtained results, interpreted according to CLSI M45, of the state of the control of the	pasis of obtained results, interpreted according to CLSI M45, can be telem "OROMUCOSAL RELIEF SPRAY" has antimicrobial activity of male Inhibitory Concentration (MIC) until a 1:8 dilution factor is

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