


TEST REPORT	Refer to Analytical Report Number		
SPONSOR	Eurofins Lancaster Labs – Chemistry 4-C71 BU		
	2425 New Holland Pike		
	Lancaster, PA 17601		
	UNITED STATES		
FINAL CUSTOMER	Breathh Inc./Lutema		
TEST METHOD	Bacterial Filtration Efficiency (BFE) – EN 14683:2019+AC:2019 App B		
TEST ITEM - INFORMATION FROM THE SPONSOR			
PRODUCT NAME	DMF4L		
MATRIX OF THE PRODUCT	Face Mask		
BATCH	BLR156	CODE	Not provided
EUROFINS COSMETICS & PERSONAL CARE ITALY IDENTIFICATION			
MATERIAL ITEM ALIQUOT	N720AA0999-2		
PARCEL REGISTRATION N.	IP-N/-2020338-AAG	RECEIVING DATE	03 Dec 2020
ANALYSIS STARTING DATE	14 Dec 2020	ANALYSIS ENDING DATE	15 Dec 2020
EXPERIMENTAL CONDITIONS	Dimension of the test specimen: 175 mm x 95 mm Size of the area tested: 49 cm ² Flow rate during testing: 28,3 l/min Inner side of the mask to the aerosol challenge.		
PHOTO OF THE TEST ITEM			
RESULTS			
		RESULT	UNIT
	ALIQUOT 1	99,89	%
	ALIQUOT 2	99,93	%
	ALIQUOT 3	99,82	%
	ALIQUOT 4	99,82	%
	ALIQUOT 5	99,86	%
DETAILED RESULTS	See Addendum N. 1 (1 page)		

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LAB N° 1827 L

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Addendum N.1

Started on: 14/12/2020

Batch: N720AA0999

Sample description: DMF4L

Lot Number: BLR156

Negative Control Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Mean
Negative Control (CFU)	0	0	0	0	0	0	0

*number of colonies adjusted with positive-hole correction table

Positive Controls Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Total CFU
Size of particle (µm)	7,00	4,70	3,30	2,10	1,10	0,65	
Positive Control N.1 (CFU)	139	258	998	559	447	271	2672
Positive Control N.2 (CFU)	163	267	1036	639	465	289	2859

*number of colonies adjusted with positive-hole correction table

Mean of the total plate counts of the two positive controls (CFU): 2766

Mean Particle Size (MPS)

	MPS
Positive Control N.1 (µm)	2,74
Positive Control N.2 (µm)	2,75
Mean (µm)	2,74

Test specimens Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Total CFU
N720AA0999-2 - Aliquot 1	0	0	0	0	0	3	3
N720AA0999-2 - Aliquot 2	0	0	0	0	0	2	2
N720AA0999-2 - Aliquot 3	0	0	0	0	0	5	5
N720AA0999-2 - Aliquot 4	0	0	0	0	1	4	5
N720AA0999-2 - Aliquot 5	0	0	0	0	0	4	4

*number of colonies adjusted with positive-hole correction table

Test specimens Bacterial Filtration Efficiency (BFE)

	BFE (%)
N720AA0999-2 - Aliquot 1	99,89
N720AA0999-2 - Aliquot 2	99,93
N720AA0999-2 - Aliquot 3	99,82
N720AA0999-2 - Aliquot 4	99,82
N720AA0999-2 - Aliquot 5	99,86

Eurofins Cosmetics & Personal Care Italy Srl – via B.Buozzi 2, Vimodrone (Milano), Italy –

P.IVA / VAT Number: 05533561006

Tel: +39-022507151 – Fax: +39-0225071599 – E-mail: : InfoCosme@eurofins.com