




Cosmetics &
Personal Care



LAB N° 1827 L

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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.			
TEST METHOD	Bacterial Filtration Efficiency (BFE) – EN 14683:2019+AC:2019 App B			
TEST ITEM - INFORMATION FROM THE SPONSOR				
PRODUCT NAME	Surgical Masks			
MATRIX OF THE PRODUCT	Face Mask			
BATCH	NA	CODE	Not provided	
EUROFINS COSMETICS & PERSONAL CARE ITALY IDENTIFICATION				
MATERIAL ITEM ALIQUOT	LV20AB5107-1			
PARCEL REGISTRATION N.	IP-LV-2020262-ADT	RECEIVING DATE	18 Sep 2020	
ANALYSIS STARTING DATE	22 Sep 2020	ANALYSIS ENDING DATE	28 Sep 2020	
EXPERIMENTAL CONDITIONS	Dimension of the test specimen: 170 mm x 90 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	99,67	%
		ALIQUOT 2	99,88	%
		ALIQUOT 3	99,88	%
		ALIQUOT 4	99,80	%
		ALIQUOT 5	99,88	%
DETAILED RESULTS	See Addendum N. 1 (1 page)			

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Addendum N.1

Started on: 22/09/2020

Batch: LV20AB5107

Sample description: Surgical Masks

Lot Number: NA

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)	81	162	1093	475	308	245	2364
Positive Control N.2 (CFU)	88	180	1142	502	342	271	2525

*number of colonies adjusted with positive-hole correction table

Mean of the total plate counts of the two positive controls (CFU): 2445

Mean Particle Size (MPS)

	MPS
Positive Control N.1 (µm)	2,72
Positive Control N.2 (µm)	2,71
Mean (µm)	2,71

Test specimens Plate Counts

	Stage 1	Stage 2	Stage 3*	Stage 4*	Stage 5*	Stage 6*	Total CFU
LV20AB5107-1 - Aliquot 1	0	0	0	0	1	7	8
LV20AB5107-1 - Aliquot 2	0	0	0	0	1	2	3
LV20AB5107-1 - Aliquot 3	0	0	0	0	1	2	3
LV20AB5107-1 - Aliquot 4	0	0	0	0	1	4	5
LV20AB5107-1 - Aliquot 5	0	0	0	0	1	2	3

*number of colonies adjusted with positive-hole correction table

Test specimens Bacterial Filtration Efficiency (BFE)

	BFE (%)
LV20AB5107-1 - Aliquot 1	99,67
LV20AB5107-1 - Aliquot 2	99,88
LV20AB5107-1 - Aliquot 3	99,88
LV20AB5107-1 - Aliquot 4	99,80
LV20AB5107-1 - Aliquot 5	99,88

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