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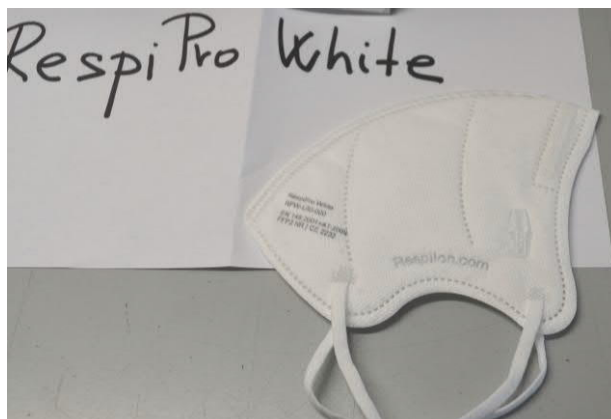
TEST REPORT

25 May 2021

Sample Information

Sample name	RespiPro White
Sample reception	19/04/2021
Sample no.	392-2021-00192603
Analysis period	19/04/2021 - 21/05/2021

Picture of Sample



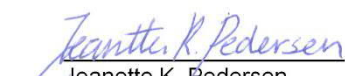
Results

Please see enclosure with detailed results.

Conclusion

The sample **does not comply** with the requirements in F2100-2019 for a level 1 barrier mask.

Eurofins Product Testing A/S


Jeanette K. Pedersen
Analytical Service Manager

The results are only valid for the tested sample(s).

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392-2021-00192603_FP_EN

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Brief Evaluation of the Results

Type of analysis	Result	Standard
Bacterial Filtration Efficiency (BFE), (%)	> 99.9	ASTM F2100 9.1 / ASTM F2101
Particle Filtration Efficiency (PFE), (%)	99.90	ASTM F2100 9.3 / ASTM F2299
Differential Pressure, (mm H ₂ O/cm ²)	9.2	ASTM F2100 9.2 / EN 14683 Annex C
Resistance to Penetration, (80 mm Hg)	None Seen	ASTM F2100 9.4 / ASTM F1862
Flammability	Did Not Ignite	ASTM F2100 9.5 / 16 CFR PART 1610

Operational requirements for medical face masks based on ASTM F2100-2019

Parameter	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier
Bacterial Filtration Efficiency (BFE), (%)	≥ 95	≥ 98	≥ 98
Particle Filtration Efficiency (PFE), (%)	≥ 95	≥ 98	≥ 98
Differential Pressure, (mm H ₂ O/cm ²)	< 5.0	< 6.0	< 6.0
Resistance to penetration, (mm Hg) (minimum pressure in mm HG for pass result)	80	120	160
Flame spread	Class 1	Class 1	Class 1

The face mask was not sealed upon receipt.

*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit www.eurofins.dk/uncertainty

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□: Internal test method

n.d: Not detected

n.m: Not measurable

LOQ: Limit of quantification



TEST REPORT TUCHENG

Date of Issue: May.20,2021 Date of Receipt and Test Start: Apr.30,2021

Report No.: TFG0D475 Quantity: 1PC Page Order/Pages: (P1/5) Ref. No.: NIL

Report Title: Eurofins Consumer Product Testing(DK002) Item: Mask

Address: Eurofins Product Testing A/S, Smedskovvej 38, 8464 Galten, Denmark

Test Items		Test Results	Test Methods
Sub-Micron Particulate Filtration Efficiency(%) (0.1 μ m PSL)	1	99.89	ASTM F2100-2019 9.3
	2	99.91	ASTM F2299-2017
	3	99.91	Flow rate:28.1
	4	99.91	(Liter/min)
	5	99.87	
	Ave.	99.90	
Air Exchange Pressure (mmH ₂ O/cm ²)	1	8.7	ASTM F2100-2019 9.2
	2	9.9	EN 14683:2019 Annex C
	3	8.4	
	4	9.3	
	5	9.7	
Flammability (as Received)		DNI	ASTM F2100-2019 9.5 CPSC 16 CFR 1610-2008

Note: "DNI":Did Not Ignite.

Note: 1mmH₂O=9.8Pa.

Note: Air Exchange Pressure takes 5 masks for testing.

Note: Flammability takes 20 samples for testing.

Note: Sample description is given by the client: 392-2021-00192603/RespiPro White

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Authorized by president of

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Date of Issue: May.20,2021 Date of Receipt and Test Start: Apr.30,2021

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Report Title: Eurofins Consumer Product Testing(DK002) Item: Mask

Address: Eurofins Product Testing A/S, Smedskovvej 38, 8464 Galten, Denmark

Test Items		Test Results	Test Methods
*Synthetic Blood Penetration Pressure:80 mmHg	1	None Seen	ASTM F2100-2019 9.4
	2	None Seen	ASTM F1862-2017
	3	None Seen	
	4	None Seen	
	5	None Seen	
	6	None Seen	
	7	None Seen	
	8	None Seen	
	9	None Seen	
	10	None Seen	
	11	None Seen	
	12	None Seen	
	13	None Seen	
	14	None Seen	
	15	None Seen	
	16	None Seen	

Note: Sample description is given by the client: 392-2021-00192603/RespiPro White

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Address: Eurofins Product Testing A/S, Smedskovvej 38, 8464 Galten, Denmark

Test Items		Test Results	Test Methods
*Synthetic Blood Penetration Pressure:80 mmHg	17	None Seen	ASTM F2100-2019 9.4
	18	None Seen	ASTM F1862-2017
	19	None Seen	
	20	None Seen	
	21	None Seen	
	22	None Seen	
	23	None Seen	
	24	None Seen	
	25	None Seen	
	26	None Seen	
	27	None Seen	
	28	None Seen	
	29	None Seen	
	30	None Seen	
	31	None Seen	
	32	None Seen	

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Address: Eurofins Product Testing A/S, Smedskovvej 38, 8464 Galten, Denmark

Test Items		Test Results	Test Methods
*Bacterial Filtration	1	> 99.9	ASTM F2100-2019 9.1
Efficiency (BFE)(%)	2	> 99.9	ASTM F2101-2019
Staphylococcus aureus	3	> 99.9	
ATCC 6538	4	> 99.9	
	5	> 99.9	

Note: Control average: 2644 CFU.

Note: Mean particle size: 2.9 μ m.

Note: Testing side: outside of specimen.

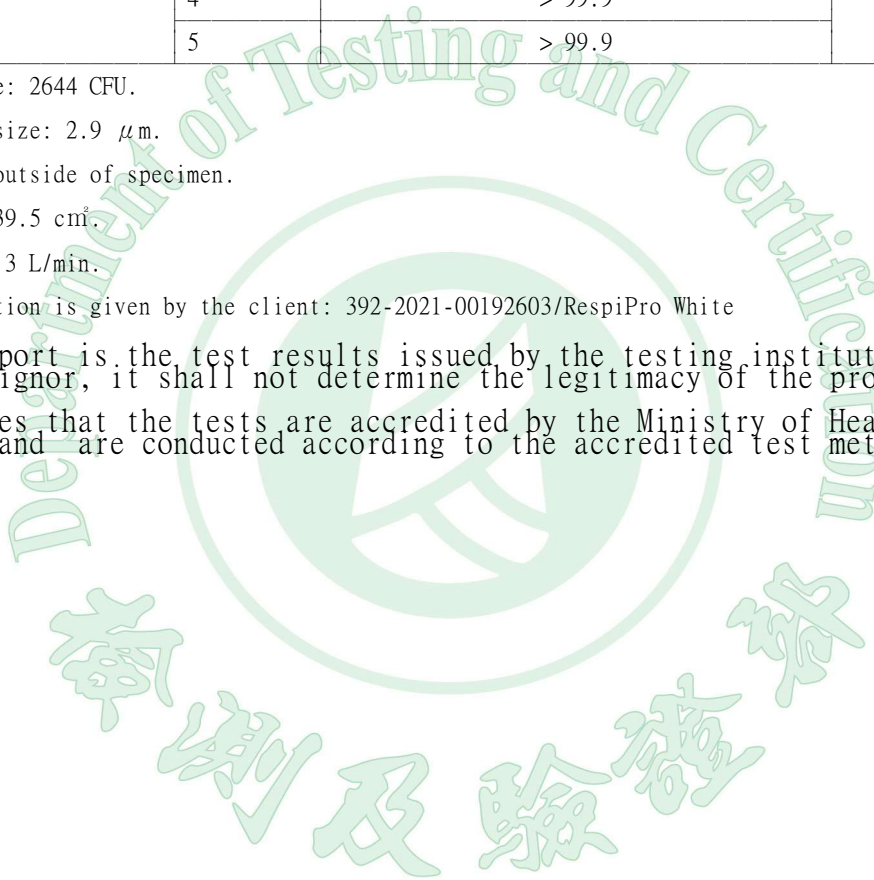
Note: Testing area: 39.5 cm².

Note: Flow rate : 28.3 L/min.

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