



# nutrilab

Certificate of analysis

Order-no : 841311

RIVM - (Corona Advies)

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Description	:	X186	Sample date	:	
Client project-no	:	20200630	Start date microbiology	:	01-07-2020
Sample received	:	30-06-2020	Sample delivery	:	
Report date	:	02-07-2020	Sample temperature	:	
Sampling	:		Sample condition	:	Sample and packing intact
Packing	:				
Sealed	:	No			

Test	Result
<b>Bacterial Filtration Efficiency (BFE)</b>	
I 35000 Testing BFE (n=5) (equiv. NEN-EN 14683+C1)	
I 35050 Test conditions	
I 35051 Dimensions of test specimens (width x height)	Whole mask
I 35052 Size of the area tested (width x height)	48.0 cm <sup>2</sup>
I 35053 Side facing the aerosol	Face side
I 35054 Flow rate during testing	28.3 L/min
I 35060 Mean of the total plate counts of the two positive controls	2,977 cfu
I 35070 Mean plate count of the negative controls	0 cfu
I 35100 Bacterial Filtration Efficiency (BFE, equiv. NEN-EN 14683+C1)	
I 35101 BFE specimen 1	100 %
I 35102 BFE specimen 2	100 %
I 35103 BFE specimen 3	100 %
I 35104 BFE specimen 4	99.9 %
I 35105 BFE specimen 5	100 %
I 35199 Average BFE	100 %
<b>Conclusion*</b>	
I 35290 Mask type based on BFE performance requirements for medical face masks	I/II/III





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\*) Performance requirements for medical face masks (acc. European Standard no. EN 14683:2019+AC):

Bacterial filtration efficiency (BFE) (%): Type I a  $\geq 95$ , Type II  $\geq 98$ , Type IIR  $\geq 98$   
 Differential pressure (Pa/cm<sup>2</sup>): Type I a  $< 40$ , Type II  $< 40$ , Type IIR  $< 60$   
 Splash resistance pressure (kPa): Type I a Not required, Type II Not required, Type IIR  $\geq 16.0$   
 Microbial cleanliness (cfu/g): Type I a  $\leq 30$ , Type II  $\leq 30$ , Type IIR  $\leq 30$

a) Type I medical face masks should only be used for patients and other persons to reduce the risk of spread of infections particularly in epidemic or pandemic situations.

Type I masks are not intended for use by healthcare professionals in an operating room or in other medical settings with similar requirements.

This certificate of analysis is a test report. The tested samples are part of the mentioned batch/lot number. Batch validation is not the scope of this report.

Start date analysis: 01-07-2020, end date: 02-07-2020.

Findings are based on the sample as submitted. For more detailed information on applied methods please contact the operational manager.

Any interpretation of analytical results mentioned on this certificate lies outside the scope of accreditation.

With the unit % is meant: w/w%, unless otherwise stated.

Nutrilab is not responsible for the information provided by the client.

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Explanation of symbols:

Q InA accredited test (ISO / IEC 17025)  
 I Test performed by Nutrilab BV  
 E Test performed by sub-contractor