

Summary report

ID 742-1

Evaluation of microbial cleanliness performance requirements according to EN 14683:2019 Annex D + ISO 11737-1:2018. The method is accredited for medical face masks.

Customer details

Customer name	FinishFire Ky / Innojok
Street address	Rysäkuja 16
Postal address and zip code	02260 Espoo
Country	Finland

Samples

Sample name	Sample type	Sampling ¹	Test
10 min	Medical face mask	Customer	Microbial cleanliness
12 min	Filtering half mask	Customer	Microbial cleanliness
18 min	Filtering half mask	Customer	Microbial cleanliness
3 x 12 min	Filtering half mask	Customer	Microbial cleanliness

¹ The results included in this report refer only to the sample tested. In case the sampling is not performed by our staff, the laboratory is not responsible for the sample information reported in this test report and the results refer only to the sample as received. This report may not be partially reproduced, unless approved in writing by Measur Oy.

Results ¹

Sample name	Test number	Result (cfu/mask)	Mask weight (g)	Results (cfu/g)
10 min	1	118	3.01	39
	2	85	3.02	28
	3	150	3.01	50
	4	147	3	49
	5	69	3.01	23
	Total cfu per g			

Sample name	Test number	Result (cfu/mask)	Mask weight (g)	Results (cfu/g)
12 min	1	68	5.42	13
	2	1264	5.37	235
	3	194	5.45	36
	4	52	5.44	10
	5	100	5.38	19
	Total cfu per g			

Sample name	Test number	Result (cfu/mask)	Mask weight (g)	Results (cfu/g)
18 min	1	39	5.4	7
	2	81	5.42	15
	3	39	5.42	7
	4	52	5.44	10
	5	23	5.4	4
	Total cfu per g			

Sample name	Test number	Result (cfu/mask)	Mask weight (g)	Results (cfu/g)
3 x 12 min	1	81	5.45	15
	2	87	5.48	16
	3	201	5.44	37
	4	136	5.43	25
	5	405	5.46	74
	Total cfu per g			

¹ These results refer to the original test reports 385923, 390239, 390240 and 390242 from Measur external provider

Performance requirements for medical face masks (EN 14683:2019)

Test	Type I ^a	Type II	Type IIR
Bacterial filtration efficiency (%)	≥ 95	≥ 98	≥ 98
Differential pressure (Pa/cm ²)	< 40	< 40	< 60
Splash resistance pressure (kPa)	Not required	Not required	≥ 16,0
Microbial cleanliness (cfu/g)	≤ 30	≤ 30	≤ 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.

In Helsinki, 8 March 2021



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