

TEST REPORT

CLIENT: D MED SOLUTIONS CO., LTD
2/2 MOO 4, BANGBUATONG-SUPHANBURI ROAD,
T.RATDORNNIYOM, SAINOI, NONTABURI 11150

REPORT NUMBER: G 1769/64R1
APPLICATION FORM No.: -
ISSUE DATE: 30/04/21
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DATE OF RECEIPT: 23/02/21
DATE OF TEST: 23/02/21-31/03/21

SAMPLE NUMBER: G 1769-1/64
SAMPLE NAMES (AS SPECIFIED BY THE CLIENT): SURGICAL FACE MASK (BRAND: M PLUS)

SAMPLE DESCRIPTION: ONE SAMPLE OF MASK

	CLIENT'S REQUIREMENT	G 1769-1/64	CONCLUSION
BACTERIAL FILTRATION EFFICIENCY: ASTM F2100-2019 9.1/ASTM F2101-2019			
BACTERIAL FILTRATION EFFICIENCY (%)	LEVEL 3: ≥98		PASS
<i>Staphylococcus aureus</i> ATCC 6538			
- TEST SPECIMEN 1		99.9	
- TEST SPECIMEN 2		99.9	
- TEST SPECIMEN 3		99.7	
- TEST SPECIMEN 4		99.9	
- TEST SPECIMEN 5		99.9	

REMARK(S):

- CONTROL AVERAGE : 1798 CFU
- MEAN PARTICLE SIZE : 2.7 µm
- TESTING SIDE : INSIDE OF SPECIMEN
- TESTING AREA : 50.2 cm²
- FLOW RATE : 28.3 L/min
- CONDITION TEST SPECIMEN : 21±5 °C, 85±5 %RH, MINIMUM 4 HOUR
- TEST APPARATUS : BACTERIAL FILTRATION EFFICIENCY TESTER

AUTHORIZED BY

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(CHEMICAL ANALYSIS LABORATORY MANAGER)

“การปลอมรายงานผลการทดสอบ ไม่ว่าจะเป็นการปลอมทั้งฉบับหรือแต่ส่วนหนึ่งส่วนใด หรือใช้รายงานผลการทดสอบปลอม เป็นความผิดตามประมวลกฎหมายอาญา”

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	CLIENT'S REQUIREMENT	G 1769-1/64	CONCLUSION
PARTICLE FILTRATION EFFICIENCY: ASTM F 2100: 2019 9.3 / ASTM F2299-03[†]			
PARTICLE FILTRATION EFFICIENCY (%)	LEVEL 3: ≥98		PASS
- TEST SPECIMEN 1		97.90	
- TEST SPECIMEN 2		98.03	
- TEST SPECIMEN 3		98.17	
- TEST SPECIMEN 4		97.98	
- TEST SPECIMEN 5		98.69	
AVERAGE		98.15	

REMARK(S): - AREA OF TEST : 17.35 cm²
- PARTICLE SIZE : 0.1 μm
- FACE VELOCITY : 10.6 cm/s
- ENVIRONMENT 22 ± 5°C AND 45 ± 5% RELATIVE HUMIDITY(RH) FOR 4 HOURS.

[†] THE TEST RESULTS ARE FROM SUBCONTRACT LABORATORY.

	CLIENT'S REQUIREMENT	G 1769-1/64	CONCLUSION			
RESISTANCE TO PENETRATION BY SYNTHETIC BLOOD: ASTM F2100:2019 9.4/ASTM F1862/F 1862M: 2017						
PRESSURE: 160 mmHg	LEVEL 3 BARRIER: 160 mmHg	TEST SPECIMENS				PASS
		1	2	3	4	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		5	6	7	8	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		9	10	11	12	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		13	14	15	16	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		17	18	19	20	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		21	22	23	24	
		NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN	
		25	26	27	28	
NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN			
29	30	31	32			
NONE SEEN	NONE SEEN	NONE SEEN	NONE SEEN			

REMARK(S): - REQUIREMENT: AN ACCEPTABLE QUALITY LIMIT OF 4% IS MET FOR A NORMAL SINGLE SAMPLING PLAN WHEN
≥ 29 OF 32 TEST SPECIMENS SHOW PASSING RESULT (NONE SEEN).

221346

"การปลอมรายงานผลการทดสอบ ไม่ว่าจะเป็นการปลอมทั้งฉบับหรือแต่ส่วนหนึ่งส่วนใด หรือใช้รายงานผลการทดสอบปลอม เป็นความผิดตามประมวลกฎหมายอาญา"

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	CLIENT'S REQUIREMENT	G 1769-1/64	CONCLUSION
DIFFERENTIAL PRESSURE (DELTA P): ASTM F 2100 :2019 9.2 / EN 14683:2019			
DELTA P (mmH ₂ O/cm ²)	LEVEL 3 BARRIER: < 6		PASS
- TEST SPECIMEN 1		4.80	
- TEST SPECIMEN 2		4.86	
- TEST SPECIMEN 3		4.52	
- TEST SPECIMEN 4		4.75	
- TEST SPECIMEN 5		4.75	
AVERAGE		4.73	

REMARK(S): - DELTA P FLOW RATE : 8 LITERS PER MINUTE (L/min)
- TEST APPARATUS : FACE MASK DIFFERENTIAL PRESSURE TESTER

FLAMMABILITY: ASTM F 2100 : 2019 9.5 / 16 CFR PART 1610			
CLASSIFICATION	CLASS 1	CLASS 1	PASS

REMARK(S) : - THIS REPORT SUPERSEDES THE TEST REPORT No. G 1769/64, DATED 31/03/21

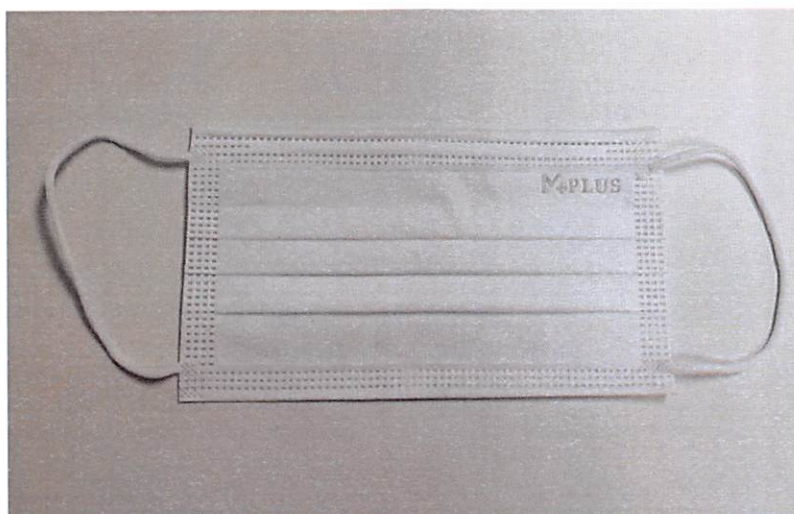


FIGURE 1 : G 1769-1/64

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