

# SGS IBR LABORATORIES TEST REPORT

## SCOPE OF WORK

Performance Testing of Medical Face Masks to  
*ASTM F2100 Standard Specification for Performance of  
Materials Used in Medical Face Masks, 2020 Edition*

## REPORT NUMBER

104481484CRT-135

## ISSUE DATE

May 5, 2021

## PAGES

4

## DOCUMENT CONTROL NUMBER

GFT-OP-10i (28-Nov-2018)

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## TEST REPORT

Issued May 5, 2021

Intertek Report No. 104481484CRT-135  
Intertek Project No. G104481484

### CLIENT

SGS IBR Laboratories  
11599 Morrissey Rd  
Grass Lake, MI 49240  
USA

### TEST STANDARD

ASTM F2100 *Standard Specification for Performance of Materials Used in Medical Face Masks*, 2020 Edition

### AUTHORIZATION

Quote Number: Qu-01114387-1

### SAMPLE IDENTIFIED BY THE CLIENT AS

Product Type: Face Mask  
Reference Number: JN 23834

### SAMPLE INFORMATION

Date(s) Samples Received: February 9, 2021  
Condition of Samples: Production Run  
Date(s) of Testing: May 3, 2021

### TEST INFORMATION

ASTM F2101 *Bacterial Filtration Efficiency*  
EN 14683:2019 Annex C *Differential Pressure*  
ASTM F2299 *Sub-Micron Particulate Filtration*  
ASTM F1862 *Resistance to Penetration by Synthetic Blood*  
16 CFR 1610 *Flammability*

Test data attached  
Not tested under this project  
Not tested under this project  
Not tested under this project  
Not tested under this project

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### SECTION 1

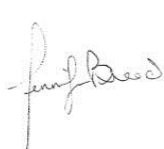
#### CONCLUSION


This test report represents the testing covered by proposal number Qu-01114387-1.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

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**Project Owner:** Jennifer Breed  
**Title:** Tech Writer  
**Signature:**   
**Date:** May 5, 2021

**Project Reviewer:** Jason Allen  
**Title:** Technical Advisor  
**Signature:**   
**Date:** May 5, 2021

#### REPORT REVISIONS

Date / Project #	Project Handler/ Reviewer	Description of Change
		None

TEST REPORT

SECTION 2

ASTM F2100-20 TEST DATA

BACTERIAL FILTRATION EFFICIENCY (BFE), ASTM F2101-19

Specimens conditioned for 4-hours at 20.4-22.1°C and 83-86%RH

Test Set-up Information	
Area of Test Specimen (cm <sup>2</sup> )	48.32
Specimen Side Facing Challenge	Inside
Flow Rate (LPM)	28.3 ± 0.5
Averaged + Control Plate Count	4362
Mean Particle Size (µm)	2.46,2.71

Mask Specimen- JN 23834					
	1	2	3	4	5
Stage 1	0	0	0	0	0
Stage 2	0	0	0	0	0
Stage 3	1	1	0	0	0
Stage 4	7	3	6	2	7
Stage 5	19	7	14	11	7
Stage 6	0	0	0	0	0
<b>Plate Count Total</b>	27	11	20	13	14
<b>% BFE</b>	99.38	99.75	99.54	99.70	99.68

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
*Timer	308-G22	10/14/2020	10/14/2021
Pipette	308-H296	VBU	
<b>Date of Testing</b>	5/3/2021		