level 3 medical three layer masks

graphene and biomass graphene free

ASTM F2100 CERTIFIED

item# 1066

Test	Medical Mask ASTM F2100		
	Level 1	Level 2	Level 3
Bacterial Filtration Efficiency, %	≥95	≥98	≥98
Differential Pressure mm H2O/cm² (Pa/cm²)	<4.0 <39.2	<5.0 <49.0	<5.0 <49.0
Submicron particulate filtration efficiency at 0.1 micron, %	≥95	≥98	≥98
Splash Resistance/ Synthetic Blood Resistance, mmHg	80	120	160
Flame Spread	Class 1	Class 1	Class 1

Health Canada

Class 1 Medical Device
MDEL license #11816
Company #131791

Nelson Labs.
A Sotera Health company

Study Number 1373630-S01
Viral Filtration Efficiency (VFE) Final Report

MASK MATERIALS:

- outer later 100% spunbond polyurethane
- inner later 100% meltblown
- inside later: 100% spunbond polyurethane
- nose wire: 100% aluminum
- earloops: 100% polyspandex
- latex-free
- hypoallergenic
- graphene and biographene free

Results:

Test Article Number	Percent VFE (%)
1	99.7
2	99.9
3	>99.9
4	>99.9
5	99.9

The filtration efficiency percentages were calculated using the following equation:

$$\%\,VFE = \frac{C-T}{C} \times 100$$

C = Positive control average

T = Plate count total recovered downstream of the test article
Note: The plate count total is available upon request

Viral Efficiency Test 99% - NEW as of January 2021