Purpose	Testing was performed in accordance with *ASTM F1862/F1862M-17, Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity), June 1, 2017* and *ASTM F2100-19, Standard Specification for Performance of Materials Used in Medical Face Masks, Aug 1, 2019.* No deviations from the ASTM Standards were observed during testing. **Testing Parameters** Pre-Conditioning: Minimum of 4 hours at 21 ± 5C and 85 ± 10% RH Distance from target area surface to tip of cannula: 30.5 cm Test Volume of Synthetic Blood: 2 mL

Breathh, Inc., DMF4L; UY-MAT-TU8J-20-330-0080:a

Date of Analysis: **01Dec2020**

Lot Number: **BREATH-DFM4L-BLR139**

Sample Number	Fluid Penetration
1	Pass
2	Pass
3	Pass
4	Pass
5	Pass
6	Pass
7	Pass
8	Pass
9	Pass
10	Pass
11	Pass
12	Pass
13	Pass
14	Pass
15	Pass
16	Pass

Sample Number	Fluid Penetration
17	Pass
18	Pass
19	Pass
20	Pass
21	Pass
22	Pass
23	Pass
24	Pass
25	Pass
26	Pass
27	Pass
28	Pass
29	Pass
30	Pass
31	Pass
32	Pass

Conclusion	None of the tested samples experienced any fluid penetration. The masks meet the blood penetration resistance requirements for a Level 3 Barrier rating from synthetic blood delivered at 635 cm/s (Test Pressure = 160 mmHg) according to *ASTM F2100*.