

Differential Pressure (Delta P) Final Report

Test Article: 2020 Wellmien Surgical mask ASTM F2100-19 Level 3
Purchase Order: WM200715
Study Number: 1324348-S01
Study Received Date: 24 Jul 2020
Testing Facility: Nelson Laboratories, LLC
6280 S. Redwood Rd.
Salt Lake City, UT 84123 U.S.A.
Test Procedure(s): Standard Test Protocol (STP) Number: STP0004 Rev 18
Deviation(s): None

Summary: The Delta P test is performed to determine the breathability of test articles by measuring the differential air pressure on either side of the test article using a manometer, at a constant flow rate. The Delta P test complies with EN 14683:2019, Annex C and ASTM F2100-19.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside
Delta P Flow Rate: 8 Liters per minute (L/min)
Conditioning Parameters: 85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours
Test Article Dimensions: ~171 mm x ~164 mm

Results:

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	5.1	50.3
2	5.1	49.8
3	5.0	49.4
4	5.1	49.9
5	5.1	50.2



Leah Tiberius electronically approved for
Study Director

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13 Aug 2020 00:38 (+00:00)

Study Completion Date and Time