

Differential Pressure (Delta P) Final Report

Test Article: grey masks #3030
white masks #2929
Purchase Order: 3079
Study Number: 1313818-S01
Study Received Date: 24 Jun 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



Adam Brigham electronically approved for
Study Director

James Luskin

07 Jul 2020 20:46 (+00:00)
Study Completion Date and Time

Results:

white masks #2929

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	1.3	12.3
2	1.3	12.9
3	1.3	12.7
4	1.2	12.0
5	1.1	11.0

grey masks #3030

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	1.9	19.1
2	1.7	16.7
3	2.1	20.9
4	2.0	19.9
5	1.8	17.9