

Differential Pressure (Delta P) Final Report

Test Article: GRACE 3PLY EARLOOP FACE MASK
BFE101C+DP
Study Number: 1349962-S01
Study Received Date: 07 Oct 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

Results:

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	4.9	47.7
2	4.8	47.0
3	5.3	51.5
4	5.6	54.8
5	4.8	47.4



Leah Tiberius electronically approved for
Study Director

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27 Oct 2020 02:18 (+00:00)
Study Completion Date and Time