

## Differential Pressure (Delta P) Final Report

Test Article: DFM3L-DP110  
 Purchase Order: 1002  
 Study Number: 1334037-S01  
 Study Received Date: 21 Aug 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: ~170 mm x ~160 mm

### Results:

Test Article Number	Delta P (mm H <sub>2</sub> O/cm <sup>2</sup> )	Delta P (Pa/cm <sup>2</sup> )
1	4.9	48.1
2	5.1	49.7
3	5.0	49.2
4	4.8	47.5
5	4.9	47.7



James Luskin electronically approved  
Study Director

James Luskin

16 Sep 2020 18:10 (+00:00)  
Study Completion Date and Time