

## Differential Pressure (Delta P) Final Report

Test Article: Test Code - DPT110C, Samples -- ROYAL BLUE #1, #2, BLACK, WHITE, ORANGE  
 Purchase Order: AG0825  
 Study Number: 1338567-S01  
 Study Received Date: 04 Sep 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	Delta P (mm H <sub>2</sub> O/cm <sup>2</sup> )	Delta P (Pa/cm <sup>2</sup> )
ROYAL BLUE #1	5.6	54.6
ROYAL BLUE #2	6.2	60.4
BLACK	5.6	55.1
WHITE	6.5	63.9
ORANGE	5.6	55.1



Adam Brigham electronically approved for  
Study Director

James Luskin

21 Sep 2020 19:54 (+00:00)  
Study Completion Date and Time