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Latex Particle Challenge Final Report

Test Article: Filtration material SpurTex PP (production sample)

Study Number: 1350074-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: STP0005 Rev 08

Deviation(s): None

Summary: This procedure was performed to evaluate the non-viable particle filtration efficiency (PFE) of the test article. Monodispersed polystyrene latex spheres (PSL) were nebulized (atomized), dried, and passed through the test article. The particles that passed through the test article were enumerated using a laser particle counter.

A one-minute count was performed, with the test article in the system. A one-minute control count was performed, without a test article in the system, before and after each test article. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the number of particles penetrating the test article compared to the average of the control values. During testing and controls, the air flow rate is maintained at 1 cubic foot per minute (CFM) \pm 5%.

The procedure employed the basic particle filtration method described in ASTM F2299, with some exceptions; notably the procedure incorporated a non-neutralized challenge. In real use, particles carry a charge, thus this challenge represents a more natural state. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks. 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: Either Side
Area Tested: 91.5 cm²
Particle Size: 0.1 µm

Laboratory Conditions: 21.9°C, 22% relative humidity (RH) at 0655; 22.5°C, 21% RH at

0809

Average Filtration Efficiency: >99.9916%

Standard Deviation: 0.01052





Christopher Acker electronically approved for

Curtis Gerow

14 Nov 2020 03:45 (+00:00)

Study Director

Study Completion Date and Time

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FRT0005-0001 Rev 7



Results:

Test Article Number	Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	3	11,167	99.973
2	<1 ^a	12,186	>99.9973
3	<1 ^a	13,376	>99.9975
4	1	13,529	99.9926
5	<1 ^a	12,978	>99.9974

^a There were no detected particles penetrating this filter during testing.

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