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## Latex Particle Challenge Final Report

Test Article: AntiMicrobe Web R Study Number: 1272275-S01

Study Received Date: 28 Feb 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 07

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.

Three one-minute counts were performed, with the test article in the system, and the results averaged. Three one-minute control counts were performed, without a test article in the system, before and after each test article and the counts were averaged. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the average number of particles penetrating the test article compared to the average of the control values.

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°C, 24% relative humidity (RH) at 0854; 21°C, 23% RH at 1200

Average Filtration Efficiency: 99.79% Standard Deviation: 0.042

Ilac MRA

ANAB A C C R E D I T E D TESTING LABORATORY

Study Director

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Study Completion Date



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## Results:

Test Article Number	Average Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	20	12,610	99.84
2	23	13,655	99.83
3	31	12,495	99.75
4	31	13,291	99.77
5	33	14,085	99.77