

Latex Particle Challenge Final Report

Test Article: RightCare KN95 5-PLY DISPOSABLE FACE MASK REF#: RCKN95 / UPC:

860002882352

Purchase Order: Q-155904-Z8Q4N5

Study Number: 1485863-S01 Study Received Date: 27 Jan 2022 Test Started Date: 02 Feb 2022 Test Finished Date: 08 Feb 2022

> 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):

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) ± 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: Inside Area Tested: 91.5 cm² Particle Size: 0.1 µm

02 Feb 2022: 22.1°C, 21.0% relative humidity (RH) at 1246; 22.1°C, Laboratory Conditions:

21.0% RH at 1405

08 Feb 2022: 21.6°C, 22.0% relative humidity (RH) at 0904; 21.8°C,

22.0% RH at 1016

Average Filtration Efficiency: >99.937%

Standard Deviation: 0.0487





Curtis Gerow electronically approved

Curtis Gerow

11 Feb 2022 22:40 (+00:00)

Study Director

Study Completion Date and Time

sales@nelsonlabs.com 801-290-7500 nelsonlabs.com

FRT0005-0001 Rev 7



Results:

Test Article Number	Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1-1 ^a	12	11,674	99.90
1-2 ^a	5	11,546	99.957
2-1 ^a	6	12,297	99.951
2-2 ^a	5	12,178	99.959
3-1 ^a	20	12,054	99.83
3-2 ^a	13	12,326	99.89
4-1 ^a	<1 ^b	12,509	>99.9973
4-2 ^a	2	12,646	99.984
5-1 ^a	7	12,042	99.942
5-2 ^a	5	11,493	99.956

^a The original result for this test article was unexpected when compared to the other test articles. Investigational testing was performed on the same test article in duplicate and it was determined that the original result was invalid. All valid test results are reported.

b There were no detected particles penetrating this filter during testing.

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