

Sponsor: Kevin Kang Aevoe Inc. (Moshi) 27F, No. 68, Zhong Xiao E. Rd, Sec. 5 Taipei City, 11065 **TAIWAN**

Viral Filtration Efficiency (VFE) Final Report

Moshi NanohedronTM Test Article:

Study Number: 1304905-S01 Study Received Date: 29 May 2020

> Testing Facility: Nelson Laboratories, LLC

6280 S. Redwood Rd.

Salt Lake City, UT 84123 U.S.A.

Standard Test Protocol (STP) Number: STP0007 Rev 16 Test Procedure(s):

Deviation(s): None

Summary: The VFE test is performed to determine the filtration efficiency of test articles by comparing the viral control counts upstream of the test article to the counts downstream. A suspension of bacteriophage $\Phi X174$ was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and fixed air pressure. The challenge delivery was maintained at 1.1 - 3.3 x 10³ plaque forming units (PFU) with a mean particle size (MPS) of 3.0 µm ± 0.3 µm. The aerosol droplets were drawn through a six-stage, viable particle, Andersen sampler for collection. The VFE test procedure was adapted from ASTM F2101.

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 Test Area: $\sim 40 \text{ cm}^2$

28.3 Liters per minute (L/min) VFE Flow Rate:

Conditioning Parameters: 85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours

 $2.4 \times 10^{3} PFU$ Positive Control Average: Negative Monitor Count: Acceptable MPS: 2.7 µm





Trang Truong electronically approved for

James Luskin

13 Jul 2020 23:56 (+00:00)

Study Director

Study Completion Date and Time

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Results:

Test Article Number	Percent VFE (%)
1	>99.9 ^a
2	>99.9 ^a
3	>99.9 ^a
4	>99.9 ^a
5	>99.9 ^a

^a There were no detected plaques on any of the Andersen sampler plates for this test article.

The filtration efficiency percentages were calculated using the following equation:

$$\% VFE = \frac{C - T}{C} x \ 100$$

C = Positive control average

T = Plate count total recovered downstream of the test article Note: The plate count total is available upon request