

Sponsor: Adele Chen Digipas Technologies, Inc. 200 Spectrum Center Dr. Irvine. CA 92618

## Viral Filtration Efficiency (VFE) Final Report

Test Article: eGee-Pro® 9501 Study Number: 1342903-S01 Study Received Date: 17 Sep 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 10<sup>3</sup> plague 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: ~40 cm<sup>2</sup>

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

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

1.1 x 10<sup>3</sup> PFU Positive Control Average: <1 PFU Negative Monitor Count:

MPS: 3.0 µm





Trang Truong electronically approved for

Study Director

James Luskin

30 Oct 2020 20:32 (+00:00) Study Completion Date and Time

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## Results:

Test Article Number	Percent VFE (%)
1	99.7
2	99.7
3	99.7
4	99.8
5	99.7

<sup>&</sup>lt;sup>a</sup> 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

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