

Sponsor: Jan Buk Pardam s.r.o. Zizkova 2759 Roudnice nad Labem, Ustecky 413 01 CZECH REPUBLIC

Viral Filtration Efficiency (VFE) Final Report

| Test Article: | NnF MBRANE® BreaSAFE PA6 | |
|------------------------|--------------------------------------|----------------|
| Study Number: | 1366181-S01.1 Amended | |
| Study Received Date: | 23 Nov 2020 | |
| Study Completion Date: | 29 Dec 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: | STP0007 Rev 16 |
| 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 Φ 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:EitherTest Area:~40 cm²VFE Flow Rate:28.3 Liters per minute (L/min)Conditioning Parameters:85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hoursPositive Control Average:1.3 x 10³ PFUNegative Monitor Count:<1 PFU</td>MPS:2.9 μm



Mikell Goldsberry electronically approved

Study Director

Mikell Goldsberry

09 Jan 2021 00:00 (+00:00) Amended Report Date and Time

szh

FRT0007-0001 Rev 16 Page 1 of 2



Results:

| Test Article Number | Percent VFE (%) | |
|---------------------|--------------------|--|
| 1 | >99.9 ^a | |
| 2 | >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

Amendment Justification: At the request of the sponsor, the test article was changed from "NnF MBRANE® PA6+Ag" to "NnF MBRANE® BreaSAFE PA6".