

Sponsor: Clara Chan Action Medical Sundries Limited RM. 810 8/F Vanta Industrial Centre 21-33 Tai Lin Pai Rd. Kwai Chung, N.T., Hong Ko, Cn 852 CHINA

Bacterial Filtration Efficiency (BFE) and Differential Pressure (Delta P) Final Report

Test Article: CANUX Earloop Procedure Mask

Study Number: 1294314-S01 Study Received Date: 29 Apr 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: STP0004 Rev 18

Deviation(s): None

Summary: The BFE test is performed to determine the filtration efficiency of test articles by comparing the bacterial control counts upstream of the test article to the bacterial counts downstream. A suspension of Staphylococcus aureus 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 1.7 - 3.0 x 10³ colony forming units (CFU) with a mean particle size (MPS) of 3.0 ± 0.3 µm. The aerosols were drawn through a six-stage, viable particle, Andersen sampler for collection. This test method complies with ASTM F2101-19 and EN 14683:2019, Annex B.

The Delta P test is performed to determine the breathability of test articles by measuring the differential air pressure on either side of the test article using a manometer, at a constant flow rate. The Delta P test complies with EN 14683:2019, Annex C and ASTM F2100-19.

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 BFE Test Area: ~40 cm²

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

Delta P Flow Rate: 8 L/min

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

Test Article Dimensions: ~172 mm x ~170 mm

Positive Control Average: 2.5 x 10³ CFU Negative Monitor Count: <1 CFU

MPS: 3.1 um





Christopher Acker electronically approved for

Study Director

James Luskin

31 May 2020 16:59 (+00:00) Study Completion Date and Time

801-290-7500 | n

nelsonlabs.com | sales@nelsonlabs.com

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41 3 5	S 3.0	29.0	
4.	3.1	30.1	\
. (5,0	2.9	28.6	`~ `
$\% BFE = \frac{C - \hat{T}}{C} \times 100$	ages were calculated using the following e C = Positive control average T = Plate count total recovered do Note: The plate count total is	ownstream of the test article	
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