



**Report For:** Dent-X Canada  
311 Bowes Road Main Unit  
Vaughan, Ontario  
L4K 1J1  
Phone: 416-774-2476  
Email: angelina@dent-xcanada.com

**Laboratory #:** 853362-21  
**Report Date:** January 14, 2021  
**Received Date:** December 29, 2021

**Attention:** Angelina W.  
**Specimen:** #1: N95 Style Respirators, Sample #19 (FN-N95-2020H), January 11, 2021

### TEST REPORT

One specimen, consisting of N95 respirators, was submitted to be tested for filtration performance and inhalation resistance to determine acceptability with Health Canada Interim Order Guidance Document for N95 respirators.



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Per Stephen Brown  
Authorized By Stephen Brown  
Per Derek Wild  
Technician, Derek Wild



**FILTRATION PERFORMANCE**

(Modified NIOSH 42 CFR Part 84 and TEB-APR-STP-0059 procedure)

A series of five (5) respirators were mounted to test holders and preconditioned under standard temperature (23°C) and humidity (84%) prior to evaluation of filtration performance based on modified NIOSH 42 CFR Part 84 and TEB-APR-STP-0059 procedure. The test was conducted under unidirectional airflow at a nominal rate of 85-L/min. The test holder with masks had been exposed to an atmosphere of salt (NaCl) aerosol with median diameter of approximately 75nm ± 20nm. The particles were measured by size utilizing a TSI scanning mobility particle sizer spectrometer model 3034 and expressed as counts or mass. The filtration efficiency had been calculated based on a function of particle mass.

Note: The equipment was outsourced and located at University of Toronto, 223 College Street, Toronto, ON, M5T 1R4.

**RESULTS**

<b>Specimen #</b>	<b>Filtration Efficiency (%)</b>
1-1	99.6
1-2	99.5
1-3	99.3
1-4	99.5
1-5	99.5
<b>Average</b>	<b>99.5</b>

CMTL will not make any statements of conformity.

**REQUIREMENTS**

For N95 respirators under 42 CFR 84.174 the minimum efficiency for each filter must be ≥95%.



**INHALATION/EXHALATION RESISTANCE**

The test equipment used in this evaluation is capable of performing airflow resistance measurement as per 42 CFR 84 Subpart K & 84.180. Test was conducted in accordance to NIOSH standard procedure TEB-APR-STP-0003 (exhalation) and TEB-APR-STP-0003 (inhalation). The testing was performed by Kinectrics Inc. (800 Kipling Avenue, Unit 2, M8Z 5G5)

<b>Sample#</b>	<b>Inhalation Resistance (Pa)</b>	<b>Result (Pass/Fail)</b>
1-1	139.2	Pass
1-2	147.1	Pass
1-3	149.1	Pass

<b>Sample#</b>	<b>Exhalation Resistance (Pa)</b>	<b>Result (Pass/Fail)</b>
1-1	118.7	Pass
1-2	124.5	Pass
1-3	120.6	Pass

**REQUIREMENTS**

For N95 masks under 42 CFR 84.172 the maximum allowable inhalation resistance shall be  $\leq 343$  Pa, and exhalation resistance of  $\leq 245$  Pa.