

ETERNITY MEDICAL EQUIPMENT MANUFACTURAL INC TEST REPORT

SCOPE OF WORK

Performance Testing of Non-Powered Air-Purifying
Particulate Respirators to
42 CFR 84 Subpart K

REPORT NUMBER

104371603CRT-001

ISSUE DATE

July 24, 2020

PAGES

6

DOCUMENT CONTROL NUMBER

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TEST REPORT

Issued July 24, 2020

Intertek Report No. 104371603CRT-001
Intertek Project No. G104371603

CLIENT

Eternity Medical Equipment Manufactural Inc
805 Jefferson Ave
West Vancouver, BC V70 2A3
Canada

TEST STANDARD

42 CFR 82 - Approval of Respiratory Protective Devices
Subpart K - Non-Powered Air-Purifying Particulate Respirators

AUTHORIZATION

Quote Number: Qu-01085827-1

SAMPLES IDENTIFIED BY CLIENT AS

Product Type: Non-Powered Respirator
Brand Name: Eternity N95 Respirator
Model Numbers: ECAHN9598

SAMPLE INFORMATION

Date(s) Samples Received: June 30, 2020
Condition of Samples: Production Run
Date(s) of Testing: July 17, 2020 through July 22, 2020

TEST INFORMATION

TEB-APR-STP-0007 Inhalation Resistance Test	Test data attached
TEB-APR-STP-0003 Exhalation Resistance Test	Test data attached
TEB-APR-STP-0004 Exhalation Valve Leakage Test	Not tested under this project
TEB-APR-STP-0059 N95 Series	Test data attached

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SECTION 1 CONCLUSION

This test report represents the testing covered by proposal number Qu-01085827-1.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

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Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Owner: Benjamin Hanna

Title: Project Engineer

Signature: 

Date: July 24, 2020

Project Reviewer: Jason Allen

Title: Technical Advisor

Signature: 

Date: July 24, 2020

REPORT REVISIONS

Date / Project #	Project Handler/ Reviewer	Description of Change
		None

TEST REPORT

SECTION 2

42 CFR 84.180 AIRFLOW RESISTANCE TEST DATA
INHALATION RESISTANCE TEST; TEB-APR-STP-007

Item Tested: ECAHN9598 Respirator
Filter Type: Non-Powered Respirator

Specimen	Max. Allowable Resistance (mm of H ₂ O)	Actual Inhalation Resistance (mm of H ₂ O)	Result
1	35	29.4	Pass
2	35	28.6	Pass
3	35	30.1	Pass

Overall Result: Pass

EXHALATION RESISTANCE TEST; TEB-APR-STP-003

Item Tested: ECAHN9598 Respirator
Filter Type: Non-Powered Respirator

Specimen	Max. Allowable Resistance (mm of H ₂ O)	Actual Exhalation Resistance (mm of H ₂ O)	Result
1	25	21.3	Pass
2	25	21.6	Pass
3	25	20.4	Pass

Overall Result: Pass

Date of Testing	7/17/2020
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TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
Flowmeter	0758	11/5/2019	11/5/2020
Monometer	308-H383	7/19/2019	7/19/2020

TEST REPORT

SECTION 3

42 CFR 84.181 PARTICULATE FILTER EFFICIENCY TEST DATA

TEB-APR-STP-0059 N95 Series

Specimens conditioned in accordance with Section 5.2 of Test Procedure

Item Tested: ECAHN9598 Respirator

Aerosol Type: Sodium Chloride (NaCl)

Specimen	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Max. Allowable Leakage (%)	Initial Leakage (%)	Max. Leakage (%)	Filtration Efficiency (%)	Result
1	85.1	23.3	5.00	0.36	0.36	99.64	Pass
2	85.7	24.3	5.00	0.20	0.20	99.80	Pass
3	85.7	27.8	5.00	0.27	0.27	99.73	Pass
4	85.9	29.0	5.00	1.29	1.29	98.71	Pass
5	86.0	27.9	5.00	0.37	0.37	99.63	Pass
6	86.0	24.7	5.00	0.59	0.59	99.41	Pass
7	86.0	23.2	5.00	1.46	1.46	98.54	Pass
8	86.0	23.2	5.00	0.54	0.54	99.46	Pass
9	86.0	29.1	5.00	1.73	1.73	98.27	Pass
10	86.0	29.5	5.00	1.27	1.27	98.73	Pass
11	86.0	26.1	5.00	0.63	0.63	99.37	Pass
12	86.0	25.8	5.00	0.41	0.41	99.59	Pass
13	86.1	25.8	5.00	0.41	0.41	99.59	Pass
14	86.1	21.8	5.00	1.67	1.67	98.33	Pass
15	86.0	24.0	5.00	0.96	0.96	99.04	Pass
16	86.1	22.0	5.00	0.90	0.90	99.10	Pass
17	86.1	22.7	5.00	1.31	1.31	98.69	Pass
18	86.1	25.1	5.00	0.41	0.41	99.59	Pass
19	86.1	22.5	5.00	0.50	0.50	99.50	Pass
20	86.0	28.5	5.00	1.46	1.46	98.54	Pass

Overall Result: Pass

Date of Testing 7/22/2020

TEST REPORT

TEST EQUIPMENT INFORMATION

Description	Control Number	Calibration Date	Calibration Due
Conditioning Monitor	308-H323	8/19/2019	8/19/2020
Timer	308-T1515	9/5/2019	9/5/2020
Scale	308-S940	8/6/2019	8/6/2020
Automated Filter Tester	308-H387	VBU	VBU

PHOTOGRAPHS



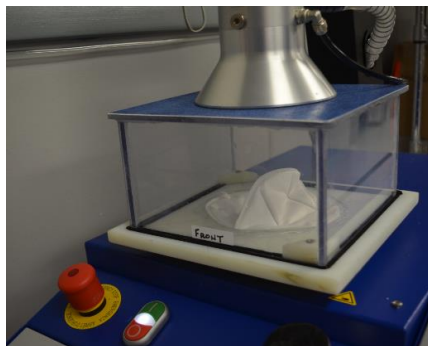
Product Label



Respirator under test



Sample Mounting



Test Setup