



Oregon Aero, Inc.
Lab Number 517630A.1 Amended

ASTM Method F 1670
Synthetic Blood Penetration

TABLE 1. Results
Sample Identification: Low-G Blue Medic Membrane, Patient Contact Surface / LG-PCS

SAMPLE NUMBER	SYNTHETIC BLOOD PENETRATION	RESULT
LG-PCS (1-3)	None Seen	Pass



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ASTM METHOD F 1670 - SYNTHETIC BLOOD PENETRATION – FINAL REPORT

Laboratory Number:	517630A.1 Amended
Procedure Number:	STP0061 REV 04
Sample Source:	Oregon Aero, Inc.
Sample Identification:	Refer to Table 1
Deviations:	None
Statement of Uncertainty:	If applicable, available upon request
Sample Side Tested:	Blue Side
Sample Preparation:	Cut from Material at Random
Exposure Procedure:	B (Retaining screen: Woven Polyester Mesh with >50% open area)
Negative Control (2 mL polyethylene) Results:	Acceptable
Positive Control (0.04 µm membrane) Results:	Acceptable
Study Received Date:	08 Mar 2010
Lab Phase Start Date:	09 Mar 2010
Lab Phase Completion Date:	17 Mar 2010
Report Issue Date:	18 Mar 2010
Study Completion Date:	18 Mar 2010
Amended Report Issue Date:	29 Mar 2010

Amendment Justification: At the request of the sponsor, the report/results were separated into an A & B report.

Reference: ASTM F 1670-08. 2008. Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood. ASTM International, West Conshohocken, PA. (CRD054)

Results: Three samples were tested. Three samples passed. Refer to Table 1 for results.

Courtney Lang, B.S.
Study Director

29 Mar 2010

Amended Report Date

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VIRAL PENETRATION ASTM METHOD F 1671 – FINAL REPORT


Laboratory Number:	517631
Procedure Number:	STP0062 REV 09
Sample Source:	Oregon Aero, Inc.
Sample Identification:	Low-G Blue Medic Membrane, Patient Contact Surface / LG-PCS
Deviations:	None
Statement of Uncertainty:	If applicable, available upon request
Sample Side Tested:	Blue Side
Sample Preparation:	Cut from Material at Random
Exposure Procedure:	B (Retaining Screen: Woven Polyester Mesh, with >50% Open Area)
Compatibility Ratio:	1.8
Negative Control (2 mil polyethylene) Results:	Acceptable
Positive Control (0.04 µm membrane) Results:	Acceptable
Environmental Plate Results:	Acceptable
Pre-Challenge:	2.2 x 10 ⁸ PFU/mL
Post-Challenge:	2.2 x 10 ⁸ PFU/mL
Study Received Date:	08 Mar 2010
Lab Phase Start Date:	09 Mar 2010
Lab Phase Completion Date:	25 Mar 2010
Report Issue Date:	26 Mar 2010

Reference: ASTM F 1671-07. 2007. Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System. ASTM International, West Conshohocken, PA. (CRD056)

Results: Three samples were tested. Three samples passed. No visual penetration was observed.



Technical Reviewer



Courtney Lang, B.S.
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26 Mar 2010

Study Completion Date

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WATER RESISTANCE: HYDROSTATIC PRESSURE – FINAL REPORT

Laboratory Number:	517629
Procedure Number:	STP0071 REV 05
Sample Source:	Oregon Aero, Inc.
Sample Identification:	Refer to Table 1
Deviations:	None
Statement of Uncertainty:	If applicable, available upon request
Sample Preparation:	Cut from Material at Random
Sample Size:	203 x 203 mm (8 x 8 in.)
Sample Side Tested:	Blue Side
Study Received Date:	08 Mar 2010
Lab Phase Start Date:	09 Mar 2010
Lab Phase Completion Date:	12 Mar 2010
Report Issue Date:	12 Mar 2010

REFERENCES:

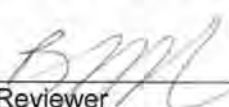
AATCC Test Method 127-2008, Water Resistance: Hydrostatic Pressure Test. American Association of Textile Chemists and Colorists. Research Park Triangle, NC. (CRD109)

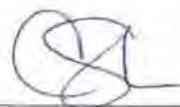
INDA IST 80.6 [WSP 80.6 (05)].2005. Standard Test Method for the Evaluation of Water Resistance (Hydrostatic Pressure) Test. International Nonwoven & Disposables Association. Cary, NC. (CRD158)

ISO 811-1981. Resistance of Fabrics to Penetration by Water (Hydrostatic Head Test). International Organization for Standardization, Geneva, Switzerland. (CRD067)

ISO 139. 2ED 2005. Textiles - Standard Atmospheres for Conditioning and Testing. International Organization for Standardization, Geneva, Switzerland. (CRD131)

ANSI/AAMI PB70:2003. Liquid barrier performance and classification of protective apparel and drapes intended for use in health care facilities. Association for the Advancement of Medical Instrumentation, Arlington, VA. (CRD235)


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15 Mar 2010
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Oregon Aero, Inc.
Lab Number 517629

Water Resistance: Hydrostatic Pressure

TABLE 1. Results
Sample Identification: Low-G Blue Medic Membrane, Patient Contact Surface / LG-PCS
(HPT101)

SAMPLE NUMBER	FAILURE PRESSURE (cm H ₂ O)
1	>122
2	>121
3	>146
4	>118
5	>108
Average	>123

Note: Greater than value (>) = Pressure stopped before sample burst.