Factory 5 -7/ 383 Dorset Road
Boronia, Victoria Australia 3155

P.O. Box 517
Bayswater, Victoria, Australia

Telephone: +61 3 9761 0766
Email: viclab@bigpond.com

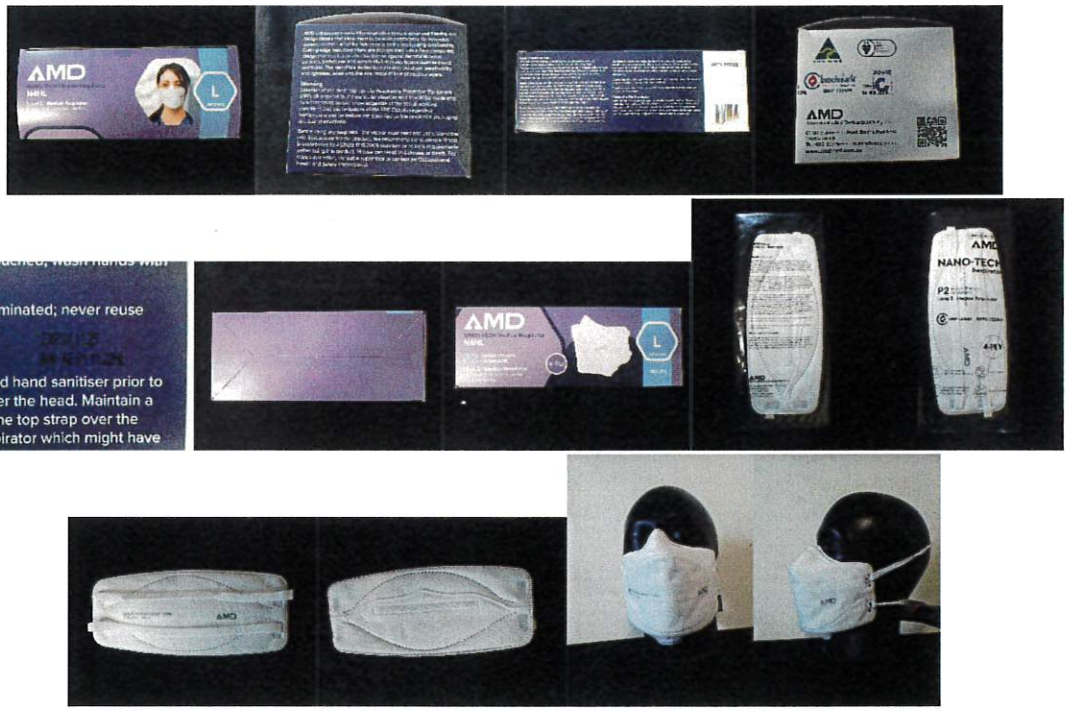
Client: ADVANCED MEDICAL DEVICES (AMD) PTY LTD
3/4 - 8 Inglewood Place,
Baulkham Hills NSW 2153 Australia

Test Report Number: 221235

Testing Requested By: Arihiro Yamada Client's Order Number: Not Supplied

Date Samples Received: 12/01/2023 Date Testing Completed: 19/01/2023

Sample Description: N4HL, Large, Single use, Trifold particulate respirator, Twin head loops, Internal metal nose clip, Individually wrapped, Marking printed: P2 AS 4381:2015, BMP 739909, N4HL, Size L, AMD, Expiry 01/11/2025, Batch Number: AE:01.11.22HLSamples as supplied.



Testing Requested:

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as required by AS 4381:2015 using Test method ISO 22609

Legend:
NA = Not Applicable
NT = Not Tested
NS = Not Supplied
TBA = To Be Ascertained

Document name: Differential Pressure

A2LA Accredited Laboratory
Certificate Number 6187.01
Accredited for compliance with ISO/IEC 17025 - Testing
The results of the tests, calibrations and/or measurements in this document are traceable to Australian National Standards.
The results are applicable to the sample tested and may not apply to other batches of the same material or similar materials.
It is a condition of the provision of these test results that you do not use the name of VicLab in connection with the promotion or sale of your products, unless VicLab has given express written authority to do so.
VicLab does not take responsibility for information or data provided by the client.

AUTHORISED SIGNATORY:

R.A. Vickery

ACCREDITED
CERT #6187.01

Factory 5 -7/ 383 Dorset Road
Boronia, Victoria Australia 3155

P.O. Box 517
Bayswater, Victoria, Australia

Telephone: +61 3 9761 0766
Email: viclab@bigpond.com

Test Report Number: 221235

Summary of Testing and Results:

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ISO 22609

Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ASTM F1862/F1862M-17

Summary: This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5cm. A test volume of 2 mL of synthetic blood was employed using the targeting plate method.

This test method was designed to comply with ASTM F1862/F1862M-17 and ISO 22609 (as referenced in AS 4381:2015) with the following exception: ISO 22609 requires testing to be performed in an environment with a temperature of 21 °C ± 5°C and a relative humidity of 85 ± 10%.Test specimens were tested in ambient conditions within one minute of removal from the conditioning chamber .

Samples Pre-Conditioned at 21 ± 5°C and 85 ± 10% relative humidity for a minimum of 4 hours prior to testing.

Test Conditions: 21.5°C, R.H.69%

Test pressure: 21.3 kPa

General location of the areas of the mask specimens target area: Central area of mask (Zone 1)
General location of the areas of the mask specimens target area: Printed Logo (Zone 2)
General location of the areas of the mask specimens target area: Top Seam (Zone 3)
General location of the areas of the mask specimens target area: Bottom Seam (Zone 4)

Was targeting-plate method used: Yes

Legend:
NA = Not Applicable
NT = Not Tested
NS = Not Supplied
TBA = To Be Ascertained

Document name: Differential Pressure

A2LA Accredited Laboratory
Certificate Number 6187.01

Accredited for compliance with ISO/IEC 17025 - Testing

The results of the tests, calibrations and/or measurements in this document are traceable to Australian National Standards.
The results are applicable to the sample tested and may not apply to other batches of the same material or similar materials.
It is a condition of the provision of these test results that you do not use the name of VicLab in connection with the promotion or sale of your products, unless VicLab has given express written authority to do so.
VicLab does not take responsibility for information or data provided by the client.
This document shall not be reproduced except in full

AUTHORISED SIGNATORY:

R.A. Vickery

ACCREDITED
CERT #6187.01

VICLAB

Factory 5 -7/ 383 Dorset Road
Boronia, Victoria Australia 3155

P.O. Box 517
Bayswater, Victoria, Australia

Telephone: +61 3 9761 0766
Email: viclab@bigpond.com

Test Report Number: 221235

Summary of Testing and Results:
Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ISO 22609 continued.

Specimen Number	Synthetic Blood Penetration (Zone Result)				Result mm Hg	Pass/Fail
Zone tested	1	2	3	4		
1	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
2	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
3	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
4	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
5	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
6	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
7	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
8	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
9	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
10	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
11	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
12	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
13	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
14	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
15	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
16	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
17	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
18	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
19	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
20	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
21	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
22	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
23	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
24	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
25	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass

Legend:
NA = Not Applicable
NT = Not Tested
NS = Not Supplied
TBA = To Be Ascertained

Document name: Differential Pressure

A2LA Accredited Laboratory
Certificate Number 6187.01

Accredited for compliance with ISO/IEC 17025 - Testing

The results of the tests, calibrations and/or measurements in this document are traceable to Australian National Standards.

The results are applicable to the sample tested and may not apply to other batches of the same material or similar materials.

It is a condition of the provision of these test results that you do not use the name of VicLab in connection with the promotion or sale of your products, unless VicLab has given express written authority to do so.

VicLab does not take responsibility for information or data provided by the client.

This document shall not be reproduced except in full

AUTHORISED SIGNATORY:

ilac-MRA A2LA ACCREDITED CERT #6187.01

R.A. Vickery

Factory 5 -7/ 383 Dorset Road
Boronia, Victoria Australia 3155

P.O. Box 517
Bayswater, Victoria, Australia

Telephone: +61 3 9761 0766
Email: viclab@bigpond.com

Test Report Number: 221235

Summary of Testing and Results:
Resistance to penetration by synthetic blood, minimum pressure in mm Hg, as per ISO 22609 continued.

Specimen Number	Synthetic Blood Penetration (Zone Result)				Result mm Hg	Pass/Fail
Zone tested	1	2	3	4		
26	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
27	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
28	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
29	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
30	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
31	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass
32	None Seen	None Seen	None Seen	None Seen	160 mm Hg	Pass

Highest pressure corresponding to a stream velocity for which an acceptable quality limit of 4.0% -

Samples supplied have achieved Level 3 Barrier Resistance to penetration by synthetic blood requirement.

Resistance to penetration by synthetic blood, minimum pressure in mm Hg requirement as per AS 4381:2015	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier
	80 mm Hg	120 mm Hg	160 mm Hg

Test Uncertainty:
These uncertainty values are based on a standard uncertainty multiplied by a coverage factor k=2, which provides for a confidence level of approximately 95% - Uncertainty of measurement has not been taken into account when presenting the test result.

Legend:
NA = Not Applicable
NT = Not Tested
NS = Not Supplied
TBA = To Be Ascertained

Document name: Differential Pressure

A2LA Accredited Laboratory
Certificate Number 6187.01

Accredited for compliance with ISO/IEC 17025 - Testing

AUTHORISED SIGNATORY:

R.A. Vickery

ACCREDITED
CERT #6187.01