

Art Beauty Group Company Limited Room 2305, Apec Plaza 49 Hoi Yuen Road mited (www.arth m.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk)ArKwun Tong, Hong Kong,

Bacterial Filtration Efficiency (BFE) Final Report

Surgical Face Mask, Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artb Test Article:

Study Number: 1321259-S01 Study Received Date: 17 Jul 2020

Testing Facility: Nelson Laboratories. LLC

Salt Lake City, UT 84123 U.S.A. (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Standard Test Protocol (STP) Number: STP0004 Rev 18 Test Procedure(s):

Deviation(s): None

Summary: The BFE test is performed to determine the filtration efficiency of test articles by comparing the bacterial 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 sixstage, viable particle, Andersen sampler for collection. This test method complies with ASTM F2101-19 mited (www.artb) Art Beauty Group Company Limited (www.artbeauty and EN 14683:2019, Annex B.

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. ©40 cm²mpany Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk)

Test Side:

BFE Test Area:

28.3 Liters per minute (L/min)

Company Limited (www.artbeauty. BFE Flow Rate: Conditioning Parameters: 85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours S1 CFU mpany Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk

Test Article Dimensions:

Positive Control Average:

Negative Monitor Count: Company Limited (www.artbeauty.c

MPS: 2.9 µm

Hac-MR/

Trang Truong electronically approved for

18 Aug 2020 04:53 (+00:00)

Study Director

James Luskin

Study Completion Date and Time

801-290-7500

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eauty.com.hk)Art Beauty Group Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artb

Test Article Number	Percent BFE (%)
1	99.2
2 Crown Company Limite	ed (www.artbeauty.com.hk) 99.5
d (www.artbeauty.com.hk) Art Beauty Group Company Limite	99.6
4	99.2
5 The filtration officional percentages, were calculated up	99.4 Beauty Group Company Limited (

The filtration efficiency percentages were calculated using the following equation: C = Positive control average

$$\% BFE = \frac{C - T}{C} \times 100$$

T = Plate count total recovered downstream of the test article

Note: The plate count total is available upon request Company Limited (www.arth

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Latex Particle Challenge Final Report

Surgical Face Mask y Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Test Article:

Study Number: 1321256-S01 Study Received Date: 17 Jul 2020

Testing Facility: Nelson Laboratories, LLC

Salt Lake City, UT 84123 U.S.A., www.artbeauty.com.hk.) Art Beauty Group Company Limited (www.artbeauty.com.hk.) Standard Test Protocol (STP) Number: STP0005 Rev 08 Test Procedure(s):

Deviation(s):

Summary: This procedure was performed to evaluate the non-viable particle filtration efficiency (PFE) of the test article. Monodispersed polystyrene latex spheres (PSL) were nebulized (atomized), dried, and passed through the test article. The particles that passed through the test article were enumerated using a laser particle counter.

A one-minute count was performed, with the test article in the system. A one-minute control count was performed, without a test article in the system, before and after each test article. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the number of particles penetrating the test article compared to the average of the control values. During testing and controls, the air flow rate is maintained at 1 cubic foot per minute (CFM) ± 5%.

The procedure employed the basic particle filtration method described in ASTM F2299, with some exceptions; notably the procedure incorporated a non-neutralized challenge. In real use, particles carry a charge, thus this challenge represents a more natural state. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 Company Limited(www.artbeauty.com.hk)Art Beauty Group Company Limited(www

91.5 cm² Area Tested: 0.1 µm Particle Size:

Laboratory Conditions: 21°C, 31% relative humidity (RH) at 1048; 21°C, 31% RH at 1210

Average Filtration Efficiency: 99.86% Standard Deviation: 0.047





McKenna Wild electronically approved for

07 Aug 2020 19:58 (+00:00)

Study Director

Curtis Gerow

Study Completion Date and Time

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.com.hk)Art Beauty Group Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artb

ompany Limited	Test Article Number	Test Article Counts	Average Control Counts	Filtration Efficiency (%)	
	1	15	11,109	99.86	
	2	14 Croup Company Limit	ed (www.a 10,798 /.com.hk) ?	99.87	
	(www.artbeagty.com.hk) Art	10	11,137	99.910	
	4	16	11,401	99.86	
	5	24	10,981	Art Beauty G99.78 ompany Limit	
			10,981 ed(www.artbeauty.com.hk.)		

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Art Beauty Group Company Limited Room 2305, Apec Plaza, 49 Hoi Yuen Road mited (www.arth) Art Beauty Group Company Limited (www.artbeauty.com.hk) ArKwun Tong, Hong Kong,

Differential Pressure (Delta P) Final Report

Surgical Face Mask, Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artb Test Article:

Study Number: 1321255-S01 Study Received Date: 17 Jul 2020

Testing Facility:

Nelson Laboratories, LLC

Salt Lake City, UT 84123 U.S.A. Standard Telephone Company Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk)

Standard Test Protocol (STP) Number: STP0004 Rev 18 Test Procedure(s):

Deviation(s): None

Summary: 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 Test Side: (Inside Company Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Delta P Flow Rate: 8 Liters per minute (L/min)

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

Results:

n.hk) Art Beauty Group Company Limited		Results: Art Beauty Group	
Delta P (Pa/cm²)	Delta P (mm H ₂ O/cm ²)	Test Article Number	npany Limited
30.6	3.1	1	
hk) Art Beauty 29.9	3.0 Www.artbeauty.com	2	
29.8	3.0	(www.artbeauty.com 3) Art Beauty Group	
29.9	3.0	4	pany Limited
No. Art Beauty 30, 1 up Company Limited	3.1	5	
		5 (www.artbeauty.com.hk) Art Beauty Group	



McKenna Wild electronically approved for

05 Aug 2020 21:13 (+00:00)

Study Director James Luskin Company Limited (www.artbeauty.com.hk)Art Beauty Group Company

Study Completion Date and Time

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Synthetic Blood Penetration Resistance Final Report

Surgical Face Mask y Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Test Article:

Study Number: 1494454-S01 Study Received Date: 28 Feb 2022 Test Started Date: 03 Mar 2022 Test Finished Date:

Nelson Laboratories, LLC (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Testing Facility:

6280 S. Redwood Rd.

Salt Lake City, UT 84123 U.S.A.

Company Limited(www.artbeauty.com.hk)Ar Standard Test Protocol (STP) Number: STP0012 Rev 10 Test Procedure(s):

Deviation(s): None

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 30.5 cm. A test volume of 2 mL of synthetic blood was employed using the targeting plate mited (www.artb 1.hk) Art Beauty Group Company Limited (www.artbeauty method.

This test method was designed to comply with ASTM F1862 and ISO 22609 (as referenced in EN 14683:2019 and AS4381:2015) with the following exception: ISO 22609 requires testing to be performed in an environment with a temperature of 21 ± 5°C and a relative humidity of 85 ± 10%. Instead, imited (www.artb testing was performed at ambient conditions within one minute of removal from the environmental chamber held at those parameters, roup Company Lin

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good ompany Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artb manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Number of Test Articles Tested: 29 Number of Test Articles Passed:

> Test Side: **Outside Center Material**

Pre-Conditioning: Minimum of 4 hours at 21 \pm 5°C and 85 \pm 5% relative humidity (RH)

IIac-MR/



James Luskin electronically approved

14 Mar 2022 20:02 (+00:00)

Study Director Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited

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Test Pressure: 160 mmHg (21.3 kPa) Test Article Number	(www.artbeauty.com.hk) Art Beauty Group Company Limited able quality limit of 4.0% is met for a normal single g results.	
(www.artbeau 1-13, 15-18, 20-27, 29-32	None Seen	
1/ 10 28	Vac	
	(www.artbeauty.com.hk) Art Beauty Group Company Limited	

Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artb artheauty com hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Art Beauty Group (Page 2 of 2 mited (www.artbeauty.com.hk)



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Flammability of Clothing Textiles Final Report

Surgical Face Mask y Limited (www.artbeauty.com.hk) Art Beauty Group Company Limited (www.artbeauty.com.hk) Test Article:

1321254-S01 Study Number: Study Received Date: 17 Jul 2020

> Testing Facility: Nelson Laboratories, LLC

Salt Lake City, UT 84123 U.S.A., www.artbeauty.com.hk.) Art Beauty Group Company Limited (www.artbeauty.com.hk.)

Test Procedure(s): Standard Test Protocol (STP) Number: STP0073 Rev 06

Deviation(s):

Summary: This procedure was performed to evaluate the flammability of plain surface clothing textiles by measuring the ease of ignition and the speed of flame spread. The parameter of time is used to separate materials into different classes, thereby assisting in a judgment of fabric suitability for clothing and protective clothing material. The test procedure was performed in accordance with the test method outlined in 16 CFR Part 1610 (a) Step 1 - testing in the original state. Step 2 - Refurbishing and testing after refurbishing, was not performed. All test method acceptance criteria were met rouTesting was mited (www.artt performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Article Side Tested: Outside Surface

> Orientation: Machine

Test Criteria for Specimen Classification (See 16 CFR Part 1610.7):

(www.antbeauty.com.hk Alt. beauty	Plain Surface Textile Fabric
Slass	I Idili Galiace Textile I abile
1	Burn time ≥3.5 seconds
2	Not applicable to plain surface textile fabrics
3 Company Limit	Burn time <3.5 seconds
3 (www.artbeauty.com.hk) Art Beauty Group Company Limit	

The 16 CFR Part 1610 standard specifies that 10 replicates are to be tested if, during preliminary testing, only 1 test article exhibits flame spread and it is less than 3.5 seconds or the test articles exhibit an average flame spread less than 3.5 seconds. Five replicates are to be tested if no flame spread is observed upon preliminary testing, if only 1 test article exhibits flame spread and it is equal to or greater than 3.5 seconds, or if the average flame spread is equal to or greater than 3.5 seconds. In accordance with the standard, 5 replicates were tested for this study. Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Limited (www.artb





Brent Shelley electronically approved for

31 Jul 2020 19:01 (+00:00)

Study Director Company Limited (www.artbeauty.com.hk)Art Beauty Group Company Curtis Gerow

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Limited (Results: Washington (Replicate Number) Replicate Number	Time of Flame Spread
	1	IBE
	2	BE Beauty Group Company Limited (
	2 www.artbeauty.com.hk)Ar ³ Beauty Group Company Limite 4	iBE
_imited ()	www.artbeauty.com.nk) 4	IBE
	5	IBE
IE	BE = Test Article ignited, but extinguished	

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