

September 20, 2021

Aspen Glove Sdn. Bhd. % Manoj Zacharias Consultant Liberty Mangement Group Ltd. 75 Executive Dr. STE114 Aurora, Illinois 60504

Re: K211477

Trade/Device Name: Latex Examination Powder Free Gloves

Regulation Number: 21 CFR 880.6250

Regulation Name: Non-Powdered Patient Examination Glove

Regulatory Class: Class I, reserved

Product Code: LYY Dated: August 16, 2021 Received: August 16, 2021

Dear Manoj Zacharias:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

For Clarence W. Murray, III, Ph.D.
Assistant Director
DHT4B: Division of Infection Control
and Plastic Surgery Devices
OHT4: Office of Surgical
And Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2023 See PRA Statement below.

K211477	
Device Name	
Latex Examination Powder Free Gloves	
ndications for Use (Describe)	
Latex Examination Powder Free Gloves are disposable device in examiner's hand to prevent contamination between patient and	
Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)
CONTINUE ON A SEPARA	TE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510K SUMMARY

As required by 21CFR§807.92(c)

A. APPLICANT INFORMATION

Applicant Aspen Glove Sdn. Bhd.

Address Aspen House, 300, JLN Macalister,

10450 Georgetown, Pulau Pinang,

Malaysia

Phone +604- 227 5000 Fax +604- 227 5000

E-mail corporate@aspen.com.my

Contact Person Mr. Iskandar Basha bin Abdul Kadir

Designation Managing Director Contact Number 017 -550 0577

Contact Email Iskandar@aspenglove.com.my

Date Submitted APRIL 25th, 2021

B. DEVICE IDENTIFICATION

Name of the device Latex Examination Powder Free Gloves

Product proprietary or AspenPro+

trade name

Common or usual name

Latex Examination Powder Free Gloves

Classification name Patient Examination Gloves

Device Classification Class I Product Code LYY

Regulation Number 21 CFR 880.6250 Review Panel General Hospital

C. PREDICATE DEVICE

Legally Marketed devices

that Equivalency is claimed

That Equivalency is clair

510(K) Number

JR Medic Powder free Latex Examination Gloves

K192329

Regulatory Class I Product code LYY

D. DESCRIPTION OF THE DEVICE:

Latex Examination Powder Free Gloves are manufactured to meet all the current specifications listed under the ASTM Specification D3578-05 (Reapproved 2015), Standard Specification for Rubber Examination Gloves. They are made from Natural Rubber Latex. These gloves are natural in color (No color is added) and are powder free.

E. INDICATIONS FOR USE/INTENDED USE OF THE DEVICE:

Latex Examination Powder Free Gloves are disposable devices intended for medical purpose that are worn on the examiner's hand to prevent contamination between patient and examiner.

F. TECHNOLOGICAL CHARACTERISTICS

Characteristics	Standards	Device	Comparison		
		Predicate	Cur	-	
510(K) Number		K192329	K211477		
Name of device		JR MEDIC Blue Latex Examination Powder Free Gloves		tamination ree Gloves	
Dimensions-	ASTMD3578-05	Length > 230 mm	Length	> 230 mm	
Length	(Reapproved		Size	Average	Similar
	2015)		X-Small	236	
			Small	236	7
			Medium	242	
			Large	248	
			X-Large	252	
Dimensions- Width	ASTMD3578-05 (Reapproved	Width Min 95+/- 10 mm (for	Width Min mm (for m	95+/-10 edium size)	Similar
	2015)	medium size)	Size	Average	
			X-Small	76	
			Small	85	
			Medium	98	
			Large	106	
D1 1	A CTM AD 2570 OF		X-Large	116	G: '1
Physical Properties-	ASTMD3578-05 (Reapproved		Tensile Streng	e Ageing th > 18 Mpa	Similar
Tensile	2015)	Before Ageing	Size	Actual	
Strength		Tensile Strength		value	
		> 18 Mpa	X-Small	22.08	
			Small	22.16	
			Medium	22.22	
			Large	22.30	
			X-Large	22.32	
		After Ageing	After Tensile Streng	Ageing th > 14 Mpa	Similar
		Tensile	Size	Actual	7
		Strength		value	_
		> 14 Mpa	X-Small	18.50	_
			Small	18.56	
			Medium	18.65	
			Large	18.74	
			X-Large	18.76	

Characteristics	Standards	Device Performance				Comparison
		Predicate	Current			1 •
510(K) Number		K192329				
Physical Properties-	ASTMD3578-05	Before Ageing	Before Ageing			Similar
Ultimate Elongation	(Reapproved 2015)	Ultimate Elongation		Elongation		
		> 650%	Size	Actu	al value	
			X-Small		856	
			Small		868	
			Medium		874	
			Large		880	
		After Ageing	X-Large		882	1
		Ultimate Elongation	I	After Agein		
		>500%		Elongation		
		20070	Size	Actu	al value	
			X-Small		842	
			Small		850	1
			Medium		855	
			Large		860	-
			X-Large		862	1
Thickness	ASTMD3578-05	Palm > 0.08 mm	_	m > 0.08 m		Similar
	(Reapproved 2015)	Finger > 0.08 mm		ger > 0.08 m		Similar
	(Reapproved 2013)	I mger vivo mm	Size	Palm	Finger	1
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(Actual	(Actual	
				value)	value)	
			X-Small	0.12	0.14	1
			Small	0.12	0.14	-
			Medium	0.12	0.14	1
			Large	0.12	0.14	-
			X-Large	0.12	0.14	-
Powder Free Residue	ASTMDD 3578-10	≤2 mg/glove	_	2 mg/glove		Similar
1 owder Free Residue	(Reapproved 2015)	≥2 mg/giove				Sililiai
	,		Size	Resid		
					er content	
			X-Small	(mg/g		_
					0.21	-
			Small		0.21	
			Medium		0.22	_
			Large		0.22	
			X-Large		0.22	
	Primary Skin	Under the condition		e condition	•	Same
	Irritation-ISO 10993-10:2010(E)	of study, not an	no	ot an irritant	t	
	, ,	irritant	77 1 1	4*.*	0.1	
Biocompatibility	Dermal Sensitization-ISO	Under the conditions	Under the conditions of the study, not a sensitizer			Same
	10993-10:2010(E)	of the study, not a	study	, not a sensi	tizer	
•	In vitro cytotoxicity	sensitizer Under the conditions	Under the conditions of the		Same	
	ISO10993-5	of the study,				Same
	:2009(E)	non-cytotoxic	study, non-cytotoxic			
	Material mediated	Under the	Under th	e condition	s of the	Same
	Pyrogenicity	conditions of the		, non-pyrog		Saille
	ISO 10993-	study non pyrogenic		, r,-°E	,	
	11:2017(E) / USP					
	41<151>					

Characteristics	Standards	tandards Device Performance		Comparison	
		Predicate	Current	,	
510(K) Number		K192329			
Biocompatibility	Bacterial Endotoxin test USP 42<85>	No data available	<20EU/pair of gloves		
	Acute Systemic Toxicity Test ISO 10993-11:2017(E)	Under the condition of study not systemic toxic	Under the conditions of study the device extracts do not pose a systemic toxicity concern	same	
Water Tight (1000 ml)	ASTM D5151-06 (Reapproved 2015)	Passes AQL-1.5	Passes AQL-1.5	Same	
Intended use		JR MEDIC Blue Latex Examination Powder Free Gloves are disposable devices intended for medical purpose that are won on the examiner's hand to prevent contamination between patient and examiner.	Latex Examination Powder Free Gloves are disposable devices intended for medical purpose that are won on the examiner's hand to prevent contamination between patient and examiner.	Same	
Material	-	Natural Latex	Natural Latex	Identical	
Color	-	Blue	Natural (No color is added)	different	
Texture	-	Finger Texture	Finger texture	Identical	
Size	ASTMD 3578-5 (Reapproved 2015)	Small, Medium, Large & X Large	X Small, Small, Medium, Large, X-Large	Similar	
Single Use	Medical Glove Guidance Manual - Labeling	Single Use	Single Use	Same	
Sterile/non sterile	=	Non Sterile	Non Sterile	Same	
Powder/Powder free	-	Powder free	Powder free	Same	
Label and Labeling	FDA Label requirements	Meets FDA's label and labeling requirements	Meets FDA's label and labeling requirements	Same	
Manufacturer(s)	-	JR Engineering & Medical Technologies (M) SDN.BHD.	Aspen Glove Sdn. Bhd.		

G. SUMMARY OF NON-CLINICAL PERFORMANCE DATA

Test Method	Purpose	Acceptance	Result
		Criteria	
ASTM D3578-05 (Reapproved 2015)	To determine the length of	Min 230 mm for all sizes	X-Small 236 mm
Standard Specification for Rubber	the gloves		Small 236 mm
Examination Gloves			Medium 242 mm
			Large 248 mm
			X-Large 252 mm
ASTM D3578-05 (Reapproved 2015)	To determine the width of	X-Small 70+/-10 mm	X-Small 76 mm
Standard Specification for Rubber	the gloves	Small 80+/-10mm	Small 85 mm
Examination Gloves		Medium 95+/-10 mm	Medium 98 mm
		Large 111+/-10 mm	Large 106 mm
		X-Large 115+/-10 mm	X-Large 116 mm

Test Method	Purpose	Acceptance Criteria	Result		
ASTM D3578-05 (Reapproved 2015) Standard Specification for Rubber Examination Gloves	To determine the thickness of the gloves	Palm 0.08 mm min Finger 0.08 mm min for all sizes	X-Small Small Medium Large	Palm 0.12mm 0.12mm 0.12mm 0.12mm 0.12mm	Finger 0.14mm 0.14mm 0.14mm 0.14mm 0.14mm
ASTM D3578-05	To Determine the physical properties-Tensile strength	Before Ageing Tensile Strength 18Mpa Min for all sizes After Ageing Tensile Strength 14Mpa Min for all sizes	X-Small Small Medium Large	Before ageing 22.08 Mpa 22.16 Mpa 22.22 Mpa 22.30 Mpa 22.32 Mpa	After ageing 18.50 Mpa 18.56 Mpa 18.65 Mpa 18.74 Mpa 18.76 Mpa
(Reapproved 2015) Standard Specification for Rubber Examination Gloves	To Determine the physical properties-Ultimate Elongation	Before Ageing Ultimate Elongation 650% Min for all sizes After Ageing Ultimate Elongation 500% Min for all sizes	X-Small Small Medium Large	Before ageing 856% 868% 874% 880% 882%	After ageing 842% 850% 855% 860% 862%
	To Determine the physical properties-stress at 500% Elongation	Before Ageing 5.5 Mpa Max for all sizes	X-Small Small Medium Large	Before ageing 5.1 Mpa 5.1 Mpa 5.2 Mpa 5.2 Mpa 5.2 Mpa 5.2 Mpa	NA
ASTM D5151-06 (Reapproved 2015) Standard Test Method for Detection of Holes in Medical Gloves	To determine the holes in the gloves	AQL 2.5	Gloves Passes AQL 1.5		
ASTM D6124-06 (Reapproved 2017) Standard Test Method for Residual Powder on Medical Gloves	To determine the residual powder in the gloves		X-Small Small Medium Large X-Large	Residu Conter 0.21 mg 0.22 mg 0.22 mg 0.22 mg	g/glove g/glove g/glove g/glove
ASTM D5712-95 (Re approved 2010) Standard Test Method for the Analysis of Protein in Natural Rubber	To determine the extractable protein in the gloves.	200 µg/ dm ² Max for all sizes	X-Small Small Medium Large X-Large	Extrac Protein 32 μg/ 32 μg/ 32 μg/ 32 μg/ 32 μg/	dm ² dm ² dm ² dm ² dm ²

The performance test data of the non-clinical tests meet following standards:

- ➤ ASTM D3578-05 (Reapproved 2015) Standard Specification for Rubber Examination Gloves
- ➤ ASTM D5151-06 (Reapproved 2015) Standard Test Method for Detection of Holes in Medical Gloves
- ➤ ASTM D6124-06 (Reapproved 2017) Standard Test Method for Residual Powder on Medical Gloves
- ➤ ASTM D5712-95 (Reapproved 2010) Standard Test Method for the Analysis of Protein in Natural Rubber

H. CONCLUSION

The conclusion drawn from the nonclinical tests demonstrates that the subject device in 510(K) submission Latex Examination Powder Free Gloves is as safe, as effective, and performs as well as or better than the legally marketed predicate device *K192329*.