

April 24, 2022

Avecena Gloves Sdn Bhd % Mehmet Ormeci Consultant MEDCER Uluslararasi Medikal Belgelendirme Anonim Sirketi Mevlana Bulvari No:221/141 Yildirim Kule Ankara, Ankara 06830 Turkey

Re: K213775

Trade/Device Name: Glovatex[™] White Latex Gloves, Glovanil[™] Blue Nitrile Gloves Regulation Number: 21 CFR 880.6250 Regulation Name: Non-Powdered Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LYY, LZA Dated: March 24, 2022 Received: April 8, 2022

Dear Mehmet Ormeci:

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 Federal Register.

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 <u>https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems</u>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<u>https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</u>) and CDRH Learn (<u>https://www.fda.gov/training-and-continuing-education/cdrh-learn</u>). 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 (<u>https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</u>) for more information or contact DICE by email (<u>DICE@fda.hhs.gov</u>) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Clarence W. Murray, III, PhD 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

Indications for Use

510(k) Number *(if known)* K213775

Device Name

Glovatex[™] White Latex Gloves, Glovanil[™] Blue Nitrile Gloves

Indications for Use (Describe)

The GlovatexTM White Latex Glove is a disposable device intended for Medical purpose that is worn on the examiner's hands or finger to prevent contamination patient and examiner.

The Glovanil[™] Blue Nitrile Glove is a disposable device intended for Medical purpose that is worn on the examiner's hands or finger to prevent contamination patient and examiner.

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 SEPARATE PAGE IF NEEDED.

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510(k) Summary **K213775**

510(k) Submitter	AVECENA GLOVES SDN BHD
Name	
510(k) Submitter	Lot 50592 Sendayan Techvalley Bandar Sri Sendayan Seremban NEGERI
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Summary	03/24/2022
Preparation Date	

Trade Or	- Glovatex [™] White Latex Gloves
Proprietary Name	 Glovanil[™] Blue Nitrile Gloves
Common Name	 Latex patient examination glove powder free
	 Polymer patient examination glove
Classification Name	Non-powder patient examination glove
Class	Class I reserved
Product Code	LYY, LZA

	Subject Device 510k No	Predicate Device 510k No	Predicate Device Manufacturer
Glovatex™ White Latex Gloves	K213775	K192329	JR Engineering & Medical Technologies (M) SDN.BHD.
Glovanil™ Blue Nitrile Gloves	K213775	K200326	Riverstone Resource Sdn Bhd.

Device Description

Glovatex[™] White Latex Gloves are manufactured to meet all the current specifications listed under the ASTM Specification D 3578-05 (Reapproved 2015), Standard Specification for Rubber Examination Gloves. They are made from Natural Rubber Latex. These gloves are in white color, non-sterile and powder free.

Glovanil[™] Blue Nitrile Gloves are manufactured to meet all the current specifications listed under the ASTM Specification ASTM D6319 - 19 Standard Specification for Nitrile Examination Gloves for Medical Application. They are made from Nitrile compound. These gloves are in Blue color, non-sterile and powder free.

Indications For Use/Intended Use Of The Device

The Glovatex[™] White Latex Glove is a disposable device intended for Medical purpose that is worn on the examiner's hands or finger to prevent contamination patient and examiner.

The Glovanil[™] Blue Nitrile Glove is a disposable device intended for Medical purpose that is worn on the examiner's hands or finger to prevent contamination patient and examiner.

Technological Characteristics <u>White Latex Gloves</u>

Characteristics	Standards	ndards Device Performance					Standards Device Perfor		Comparison
		Predicate Subject			ubject				
510(k) number	-	K192329				-			
Manufacturer(s)	-	JR Engineering & Medical		AVECENA	GLOVES SDN	-			
				BHD					
		Technolo	gies (M)						
		SDN.	BHD.						
Name of device	-	Blue I	atex	Glovatex	™ White Latex	-			
		Examinatio		G	iloves				
		Free G	iloves						
Product Code	-	LY			LYY	same			
Dimensions-	ASTM D3578		Length > 22	20 mm (sma	all)	Similar			
Length	- 19	Length >	> 220 mm (n	nedium, lar	ge, X-large)	-			
	Clause 8.4	Size	Average	Size	Average	_			
		Small	304	Small	245	_			
		Medium	304	Medium	245.6	-			
		Large	305	Large	247.5	-			
		X-Large	305	X-Large	244.3	-			
		XX-Large	305	5 Not available					
Dimensions-	ASTM D3578			90mm (sma	•	Similar			
Width	- 19		Vidth 85-10	•					
	Clause 8.4		Width 101-1		-				
			Vidth 110-1			-			
		Small	84	Small	84.4	-			
		Medium	94	Medium	95.3	-			
		Large	105	Large	103.7	-			
		X-Large	114	X-Large	111.5	-			
		XX-Large	123	Not	available				
Dimensions-	ASTM D3578	Finger > (0.08 mm	Finger	> 0.08 mm	Similar			
Thickness -	- 19	Small	0.38	Small	0.14				
Finger	Clause 8.4	Medium	0.38	Medium	0.14				
		Large	0.38	Large	0.15				
		X-Large	0.38	X-Large	0.15				
		XX-Large	0.38	Not	available				
Dimensions-	ASTM D3578	Palm > 0	.08 mm	Palm	> 0.08 mm	Similar			
Thickness -	- 19	Small	0.31	Small	0.12				
Finger	Clause 8.4	Medium	0.31	Medium	0.11				
		Large	0.31	Large	0.11				
		X-Large	0.31	X-Large	0.12				

Characteristics	Standards	Device Performance				Comparison	
		Predi	cate	Subject			
		XX-Large	0.31	Not	available		
Physical	ASTM D3578	Before	Ageing	Befo	re Ageing	Similar	
Properties-	- 19	Tensile Stre	ength > 18	Tensile S	Strength > 18		
Tensile Strength	Clause 8.5.1	Mp	ba		Мра		
		Small	33	Small	24.6		
		Medium	32.9	Medium	23.1		
		Large	32.2	Large	23.7		
		X-Large	31.9	X-Large	22		
		XX-Large	31.1	Not	available		
Physical	ASTM D3578	After A	geing	Afte	er Ageing	Similar	
Properties-	- 19	Tensile Stre	ength > 14	Tensile S	Strength > 14		
Tensile Strength	Clause 8.5.2	Mr	pa		Мра		
		Small	30	Small	23.6		
		Medium	30.6	Medium	21.8		
		Large	29.9	Large	20.9		
		X-Large	29.7	X-Large	22.6		
		XX-Large	28.2	Not	available	1	
Physical	ASTM D3578	Before	Ageing	Befo	re Ageing	Similar	
Properties-	- 19	Ultimate E	longation	Ultimat	e Elongation		
Elongation at	Clause 8.5.1	> 65	0%	>	650%		
Break		Small	1322	Small	1316	1	
		Medium	1250	Medium	1346	1	
		Large	1392	Large	1330		
		X-Large	1130	X-Large	1239		
		XX-Large	1149	Not	available		
Physical	ASTM D3578	After A	geing	Afte	er Ageing	Similar	
Properties-	- 19	Ultimate E	longation	Ultimat	e Elongation		
Elongation at	Clause 8.5.2	> 50	0%	>	500%		
Break		Small	1046	Small	1356	1	
		Medium	1122	Medium	1385	1	
		Large	1257	Large	1371	1	
		X-Large	1011	X-Large	1340		
		XX-Large	1110		available		
		C C					
Powder Free	ASTM D	≤2 mg/	/glove	<2 r	ng/glove	Similar	
Residue	6124-	Small	0.20	Small	0.39	Jinna	
Residue	06/2017	Medium	0.20	Medium	0.35	-	
	00,201,	Large	0.21	Large	0.35	-	
		-	0.22	-	0.37	-	
		X-Large XX-Large	0.22	X-Large	available	1	
Biocompatibility	In vitro	Non-cy				Same	
ыосотрациту	Cytotoxicity	NOII-CY				Same	
	ISO10993-5						
	:2009(E)						
	Primary Skin	Not-ir	ritant	Not-irritant		-	
	Irritation-ISO	NUL-II					
	111111011-130						

Characteristics	Standards	Device Pe	Comparison	
		Predicate	Subject	
	10993-			
	10:2010(E)			
	Dermal	Not-sensitizer	Not-sensitizer	
	Sensitization-			
	ISO			
	10993-			
	10:2010(E)			
	Material	Non-pyrogenic	Non-pyrogenic	
	mediated			
	Pyrogenicity			
	ISO 10993-			
	11:2017(E) /			
	USP			
	41<151>			
Freedom From	ASTM D	Passes	Passes	Same
Holes	5151-19			
Intended use	-	Blue Latex	The Glovatex [™] White	Same
		Examination	Latex Glove is a	
		Powder Free Gloves	disposable device	
		are	intended for Medical	
		disposable devices	purpose that is worn on	
		intended	the examiner's hands or	
		for medical purpose	finger to prevent	
		that are	contamination patient	
		worn on the	and examiner.	
		examiner's hand		
		to prevent		
		contamination		
		between patient and		
		examiner.	Net selected	C
Material Color	-	Natural Latex Blue	Natural Latex White	Same Different
Texture	_	Finger Texture	Finger Texture	Same
rexture		inger rexture		Sume
Size	ASTM D3578	Small, Medium,	Small, Medium, Large, X	Similar
5120	- 19	Large, X	Large	Sinna
	15	Large & XX Large	Lunge	
Single Use	Medical	Single Use	Single Use	Same
Single Ose	Glove	Single Ose	Single Ose	Same
	Guidance			
	Manual			
	- Labeling			
Sterile/non	-	Non sterile	Non sterile	Same
sterile				
Powder/Powder free		Powder free	Powder free	Same
	FDA Label	Meets FDA's label	Meets FDA's label	Same
Label and				
Label and Labeling	requirements	and labeling	and labeling	

Although dimensions, physical properties, powder free residue quantity are slightly different between the predicate device and subject device, both of devices comply with the requirements of ASTM D3578 – 19 and ASTM D 6124-06/2017. The predicate device and subject device has different colors. The predicate device has 5 sizes, on the contrary the subject device has only 4 sizes. The subject device does not include XL size. All other specifications are same between the subject device and predicate device.

Blue Nitrile Glove

Characteristics	Standards	Standards Device Perfo				Comparison
		Pro	edicate	Sub	ject	
510(k) number	-	K2	200326	-		-
Manufacturer(s)	-	Riverstone Resource Sdn		AVECENA	GLOVES	-
		Bhd.		SDN	BHD	
Name of device	-	Powder	Free Nitrile	The Glova	anil™ Blue	-
		Examinatio	on Glove (Aqua	Nitrile	Glove	
		G	ireen)			
Product Code	-		LZA	LZ	ΖΑ	same
Dimensions-	ASTM D		Length > 220 n	nm (small)		Similar
Length	6319-19	Length	> 230 mm (med	ium, large, >	(-large)	
	(Clause 7.4.2)	Size	Average	Size	Average	
		Small	Meet the	Small	239.5	
		Medium	requirements	Medium	239.7	
		Large	of ASTM D	Large	238.3	
		X-Large	6319-19	X-Large	239.3	1
		XX-Large			ailable	1
Dimensions-	ASTM D	0	Width 70-90m			Similar
Width	6319-19		Width 85-105mr	. ,		
	(Clause 7.4.3)		Width 100-120	• •		
			Width 110-130n			
		Small	Meet the	Small	81.7	
		Medium	requirements	Medium	88.8	
		Large	of ASTM D	Large	104.3	
		X-Large	6319-19	X-Large	111.3	
		XX-Large		Not av	ailable	
Dimensions-	ASTM D	Finger	> 0.05 mm	Finger >	0.05 mm	Similar
Thickness -	6319-19	Small	Meet the	Small	0.14	1
Finger	(Clause 7.4.4)	Medium	requirements	Medium	0.14	1
-		Large	of ASTM D	Large	0.14	1
		X-Large	6319-19	X-Large	0.14	1
		XX-Large		Not av		1
Dimensions-	ASTM D	Palm	> 0.05 mm	Palm > 0.05 mm		Similar
Thickness -	6319-19	Small	Meet the	Small	0.11	1
Finger	(Clause 7.4.4)	Medium	requirements	Medium	0.10	1
5	. ,	Large	of ASTM D	Large	0.09	1
		X-Large	6319-19	X-Large	0.10	1
		XX-Large	1	-	ailable	1
		-	re Ageing	Before		Similar

Characteristics	Standards	Device Performance				Comparison
		Pre	edicate	Sub		
Physical	ASTM D	Tensile Strength > 14		Tensile Strength > 14		
Properties-	6319-19		Мра	М	ра	
Tensile Strength	(Clause 7.5.1)	Small	Meet the	Small	707	
		Medium	requirements	Medium	819	
		Large	of ASTM D	Large	824	
		X-Large	6319-19	X-Large	840	
		XX-Large		Not av	ailable	
Physical	ASTM D	Afte	r Ageing	After A	Ageing	Similar
, Properties-	6319-19		Strength > 14	Tensile Str		
Tensile Strength	(Clause 7.5.1)		Мра	М	-	
		Small	Meet the	Small	22.8	
		Medium	requirements	Medium	24.3	
		Large	of ASTM D	Large	24.0	
		X-Large	6319-19	X-Large	22.2	
		XX-Large		Not av	ailable	
Physical	ASTM D	_	re Ageing	Before	Ageing	Similar
, Properties-	6319-19		e Elongation	Ultimate E		
Elongation at	(Clause 7.5.1)		500%	> 50	0%	
Break		Small	Meet the	Small	791	
		Medium	requirements	Medium	848	
		Large	of ASTM D	Large	835	
		X-Large	6319-19	X-Large	852	
		XX-Large		Not av	ailable	
Physical	ASTM D	Afte	r Ageing	After A	Ageing	Similar
Properties-	6319-19	Ultimate	e Elongation	Ultimate E	Iongation	
Elongation at	(Clause 7.5.1)	>	400%	> 4(0%	
Break		Small	Meet the	Small	23.6	
		Medium	requirements	Medium	24.5	
		Large	of ASTM D	Large	24.2	
		X-Large	6319-19	X-Large	22.1	
		XX-Large		Not av	ailable	
Powder Free	ASTM D	≤2 n	ng/glove	≤2 mg	/glove	Similar
Residue	6124-	Small	Meet the	Small	1.18	
	06/2017	Medium	requirements	Medium	1.91	
		Large	of ASTM D	Large	0.81	
		X-Large	6124-	X-Large	1.17	
		XX-Large	06/2017	Not av	ailable	
Biocompatibility	In vitro	No in	formation	Non-cy	totoxic	Similar
	Cytotoxicity					
	ISO10993-5					
	Primary Skin	Not	-irritant	Not-ir	ritant	
	Irritation-ISO					
	10993-10					
	Dermal	Not-s	sensitizer	er Not-sensitizer		
	Sensitization-					
	ISO					

Characteristics	Standards	Device Perfo	Comparison	
		Predicate	Subject	
	10993-10			
	Acute	Did not induce a systemic	Did not induce a	
	Systemic Test	toxicity	systemic toxicity	
	, ISO 10993-		, , ,	
	11			
	Material		Did not produce a	Different
	mediated		pyrogenic response	
	Pyrogenicity	/	.,	
	ISO 10993-			
	11/ USP			
	41<151>			
Freedom From	ASTM D	Passes	Passes	Same
Holes	5151-19			
Intended use	-	A powder free patient	The Glovanil™ Blue	Same
		examination glove is a	Nitrile Glove is a	
		disposable device	disposable device	
		intended for medical	intended for Medical	
		purposes that is worn	purpose that is worn	
		on the examiner's hand	on the examiner's	
		or finger to prevent	hands or finger to	
		contamination between	prevent	
		patient and examiner.	contamination	
		The device is for overthe-	patient and	
		counter use.	examiner.	
Material	-	Nitrile compound	Nitrile compound	Same
Color	-	Aqua Green	Blue	Different
Size	ASTM D6319	Small, Medium, Large, X	Small, Medium,	Similar
	- 19	Large & XX Large	Large, X	
			Large	
Single Use	Medical	Single Use	Single Use	Same
	Glove			
	Guidance			
	Manual			
	- Labeling			
Sterile/non	-	Non sterile	Non sterile	Same
sterile				
Powder/Powder		Powder free	Powder free	Same
free				
Label and	FDA Label	Meets FDA's label	Meets FDA's label	Same
Labeling	requirements	and labeling	and labeling	
		requirements	requirements	

Although dimensions, physical properties, powder free residue quantity are slightly different between the predicate device and subject device, both of devices comply with the requirements of ASTM D6319-10 and ASTM D 6124-06/2017. The predicate device and subject device has different colors. The predicate device has 5 sizes, on the contrary the subject device has only 4 sizes. The subject device does not include XL size. More biocompatibility tests were performed to subject device compared to

predicate device. Both devices meet the requirements of ISO 10993-1. All other specifications are same between the subject device and predicate devices.

Summary of Non-Clinical Testing

The Glovatex[™] White Latex Gloves meet the requirements of ASTM D3578 – 19, ASTM D 6124-06(2017), ISO10993-5:2009(E), ISO 10993-10:2010(E), ISO 10993-11:2017(E), USP 41<151> and ASTM D 5151-19.

The Glovanil[™] Blue Nitrile Gloves meet the requirements of ASTM D 6319-19, ASTM D 6124-06(2017), ISO10993-5:2009(E), ISO 10993-10:2010(E), ISO 10993-11:2017(E), USP 41<151> and ASTM D 5151-19.

Conclusion

The conclusion drawn from the nonclinical tests demonstrates that the Glovatex[™] White Latex Gloves is as safe, as effective, and performs as well as or better than the legally marketed predicate device K192329.

The conclusion drawn from the nonclinical tests demonstrates that the GlovanilTM Blue Nitrile Gloves is as safe, as effective, and performs as well as or better than the legally marketed predicate device K200326.