

October 21, 2021

Guangzhou Junda Gloves Co., Ltd Boyle Wang General Manager Shanghai Truthful Information Technology Co., Ltd. Room 608, No.738, Shangcheng Rd., Pudong Shanghai, Shanghai 200120 China

Re: K212311

Trade/Device Name: Medical Examination Gloves Regulation Number: 21 CFR 880.6250 Regulation Name: Non-Powdered Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LZA Dated: July 20, 2021 Received: July 23, 2021

Dear Boyle Wang:

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 <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,

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

Indications for Use

510(k) Number *(if known)* K212311

Device Name Medical Examination Gloves

Indications for Use (Describe)

The Medical Examination Gloves are disposable devices intended for medical purposes that are worn on the examiner's hands or finger to prevent contamination between patient and examiner.

Type of Use (Select one or both,	as applicable)	
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Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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510(k) Summary - K212311

This summary of 510(k) safety and effectiveness information is being submitted in accordance with 21 CFR 807.92.

1.0 submitter's information

Name: Guangzhou Junda Gloves Co., Ltd Address: No.38 Heting Fengwei Industrial Zone Renhe Town Baiyun District, Guangzhou,Guangdong,510470,China Phone Number: +86-20-37738661 Contact: Olivia Chen Date of Preparation: 2021.07.20

Designated Submission Correspondent

Mr. Boyle Wang Shanghai Truthful Information Technology Co., Ltd. Tel: +86-21-50313932 Email: Info@truthful.com.cn

2.0 Device information

Trade name:Medical Examination GlovesCommon name:Patient Examination GlovesClassification name:Non-powdered patient examination gloveModel(s):S, M, L, XL

3.0 Classification

Production code:LZARegulation number:21CFR880.6250Classification:Class IPanel:General Hospital

4.0 Predicate device information

Manufacturer: Ever Global (Vietnam) Enterprise Corp Device: Disposable Powder Free Nitrile Examination Glove, White/ Blue/ Black/ Pink Color 510(k) number: K171422

5.0 Intended use

The Medical Examination Gloves are disposable devices intended for medical purposes that are worn on the examiner's hands or finger to prevent contamination between patient and examiner.

6.0 Device description

The proposed device is Powder Free Medical Examination Gloves. The proposed device is blue. The design of proposed device is addressing the standards as ASTM D6124, ASTM D5151, and ASTM D6319. The proposed device is non-sterile.

7.0 <u>Summary comparing technological characteristics with predicate</u> <u>device</u>

Table I-General Comparison					
Item	Proposed device	Predicated device	Remark		
510(k) number	K212311	K171422			
Product Code	LZA	LZA Sam			
Regulation No.	21CFR880.6250	21CFR880.6250	Same		
Class	I	I	Same		
Intended Use	The Medical Examination	The Nitrile Powder Free	Same		
	Gloves is a disposable	patient examination glove			
	device intended for	is a non-sterile disposable			
	medical purposes that is	device intended for			
	worn on the examiner's	medical purpose that is			
	hands or finger to prevent	worn on the examiner's			
	contamination between	hands or finger to prevent			
	patient and examiner	contamination between			
		patient and examiner			
Powdered or Powered free	Powdered free	Powdered free	Same		
Design Feature	ambidextrous	ambidextrous	Same		
Labeling Information	Single-use indication,	Single-use indication,	Same		
	powder free, device color,	powder free, device color,			
	device name, glove size	device name, glove size			
	and quantity, Medical	and quantity, Disposable			
	Examination Gloves,	Powder Free Nitrile			
	Non-Sterile	Examination Glove,			
		Non-Sterile			

Table1-General Comparison

Table2 Device Dimensions Comparison

Predicate Designation Size Tolerance	
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				1			
Device(K171422)		XS	S	М	L	XL	
	Length, mm	230	230	230	230	230	min
	Width, mm	75	85	95	105	115	±5
			Thic	kness, mr	n:		
	Finger			0.05			min
	Palm			0.05			min
Proposed Device	Designation	Size			Tolerance		
		5	6	М	L	XL	
	Length, mm	22	20	230	230	230	min
	Width, mm	80 95		110	120	±10	
	Thickness, mm:						
	Finger	0.05			min		
	Palm	0.05			min		
Remark		Analysis1					

Analysis1: The sizes and tolerances of proposed device are different with those of the predicate, but they all meet the requirements of ASTM D6319-19, so the differences do not raise any new safety or performance questions.

Item		Proposed device	Predicated device	Remark	
Colorant	Colorant		blue	White/ Blue/ Black/ Pink	Analysis2
Physical	Before	Tensile	14MPa, min	14MPa, min 14MPa, min	
Properties	Aging	Strength			
		Ultimate	500%min	500%min	SAME
		Elongation			
	After	Tensile	14MPa, min	14MPa, min	SAME
	Aging	Strength			
		Ultimate	400%min	400%min	SAME
		Elongation			
	Comply v	vith ASTM D6319		Comply with ASTM D6319	SAME
Freedom fro	m Holes		Be free from holes Be free from holes when		SAME
			when tested in	tested in accordance with	
			accordance with	ASTMD5151 AQL=2.5	
			ASTMD5151		
			AQL=2.5		
Powder Content			0.11	Meet the requirements of	SIMILAR
				ASTM D6124	

Table3 Performance Comparison

Analysis 2: The proposed device has different color to the predicate device, but all proposed devices are conducted the biocompatibility test, the test results shown that the color difference do not effect the safety of proposed device

Item		Proposed device	Predicated device	Remark
Material		Nitrile	Nitrile	SAME
Biocompati	Irritation	Under the conditions of the study,	Comply with	SAME
bility		not an irritant	ISO10993-10	
	Sensitization	Under conditions of the study, not a		
		sensitizer.		
Cytotoxicity		Under the conditions of the study,	Comply with	Analysis3
		the device is potentially cytotoxic	ISO10993-5	
Systemic		Under the conditions of the study,	Complies with ISO	
	toxicity	the device does not elicit a systemic	10993-11 Third edition	
		toxicity response in the model	2017-09	
		animal.		
Label and La	abeling	Meet FDA's Requirement	Meet FDA's	SAME
			Requirement	

Table4 Safety Comparison

Analysis3: The proposed device is potentially cytotoxic, but all proposed devices are conducted the systemic toxicity test, the test results show that the proposed device is safe.

8.0 Summary of Non-clinical Testing

Non-clinical tests were conducted to verify that the proposed device met all design specifications and acceptance criteria. The test results demonstrated that the proposed device complies with the following standards:

ISO 10993-10:2010 Biological Evaluation Of Medical Devices - Part 10: Tests For Irritation And Skin Sensitization.

ISO 10993-5:2009 Biological Evaluation Of Medical Devices - Part 5: Tests For In Vitro Cytotoxicity

ISO 10993-11 Third edition 2017-09, Biological evaluation of medical devices -Part 11: Tests for systemic toxicity.

ASTM D6124-06 (Reapproved 2017), Standard Test Method for Residual Powder on Medical Gloves

ASTM D5151-19, Standard Test Method for Detection of Holes in Medical Gloves.

ASTM D6319-19, Standard Specification For Nitrile Patient Examination Gloves For Medical Application.

Table 5 Summary of Non-Clinical Performance Testing

No.	Name of the Test	Purpose	Acceptance Criteria	Results
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	Methodology / Standard			
1	ISO 10993-10:2010 Biological Evaluation Of Medical Devices - Part 10: Tests For Irritation And Skin Sensitization.	This part of ISO10993assessespossiblecontacthazardsfromchemicalsreleased	Skin Sensitization Test: provided grades less than 1, otherwise sensitization.	All grades are 0. All animals were survived and no abnormal signs were observed during the study.
2		medical devices, which may produce skin and mucosal irritation, eye irritation or skin sensitization.	Skin Irritation Test: If the primary irritation index is 0-0,4, the response category is Negligible. 0,5-1,9 means slight 2-4,9 means moderate 5-8 means severe	The primary irritation index is 0. The response of the proposed device was categorized as negligible under the test condition
3	ISO 10993-5:2009 Biological Evaluation Of Medical Devices - Part 5: Tests For In Vitro Cytotoxicity	This part of ISO 10993 describes test methods to assess the in vitro cytotoxicity of medical devices.	The viab.% of the 100% extract of the test article is the final result, and if viability is reduced to <70% of the blank, it has cytotoxic potential.	Viab.% of 100% test article extract is 38.4% It means the proposed device have potential toxicity to L-929 in the MTT method
4	ISO 10993-11: 2017 Biological evaluation of medical devices — Part 11: Tests for systemic toxicity	To evaluate the potential for medical device materials to cause adverse systemic reactions.	Within the monitoring period (72 h), if the toxicosis response of testing group is not greater than that of control group, the testing sample is regarded as acceptable.	No toxicosis response in testing group. It means the test article has no potential acute system toxicity on ICR mice in the extraction method.
5	ASTM D6124-06 (Reapproved 2017), Standard Test Method for Residual Powder on Medical Gloves	This standard is designed to determine the amount of residual powder (or filter-retained mass) found on medical gloves	powder residue limit of 2.0 mg	0.11 mg /glove

6	ASTM	This test method	Samples number: 125	no glove water leakage found
Ũ	D5151-06(Reapproved2	covers the	gloves	ne gieve water leakage leana
	015), Standard Test	detection of holes	AQL: 2.5 (ISO 2859)	
	Method for Detection of	in	Criterion \leq 7 gloves	
	Holes in Medical Gloves.	medical gloves.	for water leakage	
		inedical gloves.	ion water loakago	
7	ASTM	This specification	Sterility: no need	N.A.
	D6319-10(Reapproved	covers certain	Freedom from holes:	Dimensions:
	2015),Standard	requirements for	Dimensions:	S: width: 84-87 mm
	Specification For Nitrile	nitrile rubber	S: width 80 \pm 10mm	Length 239-242 mm
	Examination Gloves For	gloves used in	Length ≥220 mm	M: width 95-97 mm
	Medical Application.	conducting	M: width 95 \pm 10mm	Length 243-245 mm
		medical	Length ≥230 mm	L: width 104-106 mm
		examinations and	L: width 110 \pm 10mm	Length 250-252 mm
		diagnostic and	Length ≥230 mm	XL: width 114-117 mm
		therapeutic	XL: width 120 \pm 10mm	Length 244-247 mm
		procedures.	Length ≥230 mm	Thickness:
			Thickness:	Finger 0.09 mm
			Finger ≥0.05 mm	Palm 0.07 mm
			Palm ≥0.05 mm	
			Physical properties:	Physical properties:
			Before aging	Before aging
			Tensile strength \geq	Tensile strength 14.06-20.59
			14MPa	MPa
			Ultimate Elongation \geq	Ultimate Elongation 552.680% -
			500%	652.080%
			After Accelerated	After Accelerated Aging
			Aging	Tensile strength 14.06-16.90MPa
			Tensile strength \geq	Ultimate Elongation 508.43% -
			14MPa	646.33%
			Ultimate Elongation \geq	
			400%	Powder-free Residue:
				pl. Refer to No. 5 in table 5
			Powder-free Residue:	
			pl. Refer to No. 4 in	
			table 5	
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9.0 <u>Conclusion</u>

The conclusions drawn from the nonclinical tests demonstrate that the proposed device is as safe, as effective, and performs as well as the legally marketed predicated device.