

November 2, 2021

Shandong Jieshi Medical Products Co.,Ltd Chu Xiaoan Official Correspondent Beijing Easy-Link Company Rm. F302 Bldg., 41, Jing Cheng Ya Ju, Courtyard 6 of Southern Dou Ge Zhuang, Chaoyung District Beijing, 100121 China

Re: K210777

Trade/Device Name: Powder Free Nitrile Patient Examination Gloves, Blue Color Regulation Number: 21 CFR 880.6250 Regulation Name: Non-Powdered Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LZA Dated: September 17, 2021 Received: October 19, 2021

Dear Chu Xiaoan:

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,

For 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

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

K210777

Device Name

Powder Free Nitrile Patient Examination Gloves, Blue Color

Indications for Use (Describe)

Powder Free Nitrile Patient Examination Gloves, Blue Color is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between 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.

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

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Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2020 See PRA Statement below.

510(K) Summary

K210777

This summary of 510(k) is being submitted in accordance with 21 CFR 807.

Premarket Notification [510(k)] Summary

1.0 Submitter:

Submitter's name: Shandong Jieshi Medical Products Co., Ltd Submitter's address: North Road, Fumin Avenue,Qinghe Street, Caoxian County, Heze City, Shandong Province, 274400,P.R. China Name of contact person: Mr. Li Biao Phone number: 0086-530-2061157 Date of preparation: 2021-11-01

2.0 Name of the Device

Proprietary/Trade name: Powder Free Nitrile Patient Examination Gloves, Blue Color Common Name: Patient Examination gloves Classification Name: Non-powdered Patient examination glove Device Classification: I Regulation: 21 CFR 880.6250 Panel: General Hospital Product Code: LZA

3.0 Predicate device

Device Name: Powder Free Nitrile Patient Examination Glove, Blue Color Company name: Tangshan Zhonghong Pulin Plastic Co., Ltd. 510(K) Number: K120970

4.0 Device Description:

The proposed device is Powder Free Nitrile Examination Gloves. The proposed device is blue. The proposed device is non-sterile.

5.0 Indications for Use Statement:

Powder Free Nitrile Patient Examination Gloves, Blue Color is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.

8			Result of
Features &	Predicate Device	Predicate Device Subject Device	
Description	(K120970)	(K210777)	Comparison
Product name	Powder Free Nitrile Patient	Powder Free Nitrile Patient	Same
	Examination Glove, Blue Color	Examination Gloves, Blue Color	
Regulation Number	21CFR880.6250	21CFR880.6250	Same
Product Code	LZA	LZA	Same
Color	Blue	Blue	Same
Size	Small/ Medium/	Small/ Medium/	Same
	Large/X large	Large/X large	
Indications for Use	Powder Free Nitrile Patient	Powder Free Nitrile Patient	Same
	Examination Glove, Blue Color	Examination Gloves, Blue Color is	
	is a disposable device intended	a disposable device intended for	
	for medical purposes that is	medical purposes that is worn on	
	worn on the examiner's hand or	the examiner's hand or finger to	
	finger to prevent contamination	prevent contamination between	
	between patient and examiner.	patient and examiner.	

6.0 Technological Characteristic Comparison:

Device Description and Specifications	Meets ASTM D6319-10		Meets ASTM D6319-10 (Reapproved 2015)		Same
DimensionsLength ILS-2 AQL4.0 (ASTMD 6319-10)			sizes	Similar	
Dimensions	Small	70-90 mm	Small	75-90 mm	Similar
Width	Medium	85-105mm	Medium	88-102 mm	
IL S-2 AQL4.0	Large	100-120mm	Large	107-117mm	
(ASTM D6319-10)	X large	110-130 mm	X large	114-128 mm	
Dimensions Thickness IL S-2 AQL4.0	Finger 0.05mm min. Palm 0.05mm min.		Thickness (mm) min. Finger 0.08 Palm 0.08		Similar
(ASTM D6319-10)			1 ann 0.00		
Physical Properties IL S-2 AQL4.0 (ASTM D D6319- 10)	Before aging/after aging Tensile Strength≥ 14MPa Before aging Elongation ≥500% After aging Elongation ≥400%		Before Aging Elongation (%): 540-610 After Aging Elongation (%): 460-570 Before Aging Tensile Strength (MPa): 19-24 After Aging Tensile Strength		Similar
Freedom from Pinholes Inspection	Meets 21 CFR 800.20 ASTM D6319-10 		 (MPa): 17-22 1) Inspection Level I AQL2.5, and Accept/Reject criteria of 10/11 2) Water leakage test: 5 noncompliance is allowed. 		Similar
Level I AQL2.5					
Residual Powder (ASTM D 6124- 06(Reaffirmation 2011))	below 2mg of residual powder		 Checked on 5pcs sub-samples (N=5). Result as following: Mean: 0.1mg/pcs 		Similar
Materials used to fabricate the devices	Nitrile		Nitrile		Same
Single Patient Use	Single Patient Use		Single Patient Use		Same
Biocompatibility	Under the conditions of this study, the test article was a non- irritant or non- sensitizer (ISO 10993- 10:2002/Amd.1:2006)		Under the conditions of this study, r the test article was a non- irritant or non- sensitizer (ISO 10993-10: Third Edition 2010-08-01)		Similar
	N/A		Cytotoxicity study me 5 Third edition 2009		Different
	N/A		Under the conditions device extracts do no systemic toxicity con 10993-11:2017)	ot pose a	Different
Labeling for the	-Powder Free		-Powder Free		Same
legally marketed	-Patient Examination		-Patient Examination Glove		
device to which	Glove		-Single Use Only		
substantial	-Single Use Only		- Manufactured For:		
equivalence is	- Manufactured For:		- Lot		
claimed.	- Lot		-Blue color		
	-Blue color - Non sterile		- Non sterile		

7.0 Discussion of Non-clinical and Performance Testing

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

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

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

ISO 10993-11:2017 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 D6319-10(Reapproved 2015), Standard Specification for Nitrile Examination Gloves for Medical Application.

Test Methodology	Purpose	Acceptance Criteria		Results
ASTM D 6319-		Length	≥230mm	
06(Reapproved		Width	Small	75-90 mm
2015).			Medium	88-102 mm
	Dimension		Large	107-117mm
			X large	114-128 mm
		Thickness	Fingertip	≥0.08mm
			Palm	≥0.08mm
ASTM D 6319-		Tensile strength	≥14MPa	17-24
06(Reapproved		(Before & After		
2015).	Physical	aging)		
	Properties	Before aging	≥500%	540-610
	Toperties	Elongation		
		After aging	≥400%	460-570
		Elongation		
• 21 CFR 800.20	Freedom from	Water leakage test: Inspection Level I, AQL2.5, and		5
• ASTM D 6319-	pinholes	Accept/Reject cri	iteria of 10/11.	noncompliance
06(Reapproved				is allowed.
2015).				Dava
• ASTM D5151-				Pass
19				
• ASTM D6319-	Powder	Meets <2mg/glove		Mean:
10(Reapproved	Residual			0.1mg/pcs
2015)				р
• ASTM D6124-				Pass
06 (Reapproved				
2017),	D'	TT. 1		Deserve
Primary Skin	Biocompatibility	Under the conditions of the study,		Passes
Irritation in rabbits ISO 10993-10:		the subject device is not a		
		primary skin irritant.		
2010-08-01 Dermal		I Indon the corr 1:4:	and of the stud-	Passes
sensitization in the		Under the conditions of the study,		rasses
		the subject device is not a skin sensitizer.		
guinea pig ISO 10993-10: 2010-		sensitizer.		
08-01				
00-01	1	1		

The test article was added to L929 cells measured by MTT assay ISO 10993-5: 2009	Under the conditions of this study, the test article was non- cytotoxicity to L-929 cells.	Under the conditions of the study, cytotoxic. Additional testing was performed to determine if this was a systemic toxicity concern.
Acute Systemic Toxicity Systemic injection in mice ISO 10993-11:2017	Under the conditions of study the device extracts do not pose a systemic toxicity concern	Pass

8.0 Discussion of Clinical and Performance Testing

Clinical testing is not needed for this device.

9.0 Conclusion

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