

June 22, 2022

Hangzhou Runheng Medical Co., Ltd. Yaya Lu QC Manager Room 201, Shunfeng Building, NO.109 Hongxing Road, Qiaonan Block Hangzhou, Zhejiang 311215 China

Re: K213739

Trade/Device Name: Nitrile Examination Gloves Regulation Number: 21 CFR 880.6250 Regulation Name: Non-Powdered Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LZA Dated: May 10, 2022 Received: May 25, 2022

Dear Yaya Lu:

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,

Bifeng Qian, M.D., Ph. D.
Acting 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)* K213739

Device Name Nitrile Examination Gloves

Indications for Use (Describe)

Nitrile Examination Gloves are disposable devices intended for medical purpose that are worn on the examiner's hand 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.

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K213739-510(k) summary

I Submitter

Device submitter:	Hangzhou Runheng Medical Co., Ltd.			
	Room 201, Shunfeng Building, NO.109 Hongxing Road, Qiaonan			
	Block, Xiaoshan Economic and Technological Development Zone,			
	Hangzhou, Zhejiang Province, P.R.China.			

Contact person:	Yaya Lu
	QC Manager
	Phone: +86 18285158974
	E-mail: 1264726347@qq.com

Date of Preparation: May 16th, 2022

II Proposed Device

K213739
Nitrile Examination Gloves
21 CFR 880.6250
Non-powdered patient examination glove
Class I
LZA
General Hospital

III Predicate Devices

510(k) Number:	K211515
Trade/Device Name:	Nitrile Examination Gloves
Regulation Number:	21 CFR 880.6250
Regulation Name:	Non-powdered patient examination glove
Classification:	Class I
Product Code:	LZA
Manufacturer	Beijing Reagent Latex Products Co., Ltd.

IV Device description

Nitrile Examination Gloves are made of Nitrile rubber and are blue in color. The device is powder free nitrile examination gloves. It can be available in five specifications: XS, S, M, L and XL.

The subject device is non-sterile.

V Indication for use

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

VI Non-Clinical Test Conclusion

Non-clinical tests were conducted to verify that the proposed device met all design specifications as was same/similar to the predicate devices. The test results demonstrated that the proposed device complies with the following standards:

- > ASTM D5151 Standard Test Method for Detection of Holes in Medical Gloves
- > ASTM D6124 Standard Test Method for Residual Powder on Medical Gloves
- ASTM D6319 Standard Specification for Nitrile Examination Gloves for Medical Application
- ➢ 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

Test Method	Purpose		Acceptance	Result	
ASTM D6319	Physical Dimensions Test	Extra-Small: Length: ≥ 220 mm; Width: 70 ± 10 mm Small: Length: ≥ 220 mm; Width: 80 ± 10 mm Medium: Length: ≥ 230 mm; Width: 95 ± 10 mm Large: Length: ≥ 230 mm; Width: 110 ± 10 mm Extra-Large: Length: ≥ 230 mm; Width: 120 ± 10 mm			Pass
		Thickness (mm): Finger:≥0.05 Palm: ≥0.05			Pass
	Physical properties	Before	Tensile Strength	≥14MPa	Pass
		Aging	Ultimate Elongation	≥500%	rass
		After	Tensile Strength	≥14MPa	Pass
		Aging	Ultimate Elongation	≥500%	1 455
ASTM D5151	Watertightness Test for Detection of Holes	Meet the requirements of ASTM D5151Test for AQL 2.5			Pass

Table 1 Summary of Non-Clinical Performance Testing

ASTM D6124	Powder Content	Meet the requirements of ASTM D6124< 2.0mg	Pass
ISO 10993-11	To determine if the finished device material extracts pose a systemic toxicity concern.	Non- acute systemic toxicity	Under conditions of the study, did not show acute systemic toxicity in vivo / Pass
ISO 10993-10	To determine if the finished device material is an irritant.	Non-irritating	Under the conditions of the study not an irritant/ Pass
ISO 10993-10	To determine if the finished device material is a sensitizer.	Non-sensitizing	Under conditions of the study, not a sensitizer. / Pass

VII Clinical Test Conclusion

No clinical study is included in this submission.

VIII Summary of Technological characteristics

Table 2 Technological Characteristics Comparison Table

Item	Subject device	Predicate device	Discussio n
Product name	Nitrile Examination Gloves	Snow Lotus Nitrile Examination Gloves	NA
510(k) Number	K213739	K211515	NA
Product Code	LZA	LZA	Identical
Intended use	Nitrile Examination Gloves are disposable devices intended for medical purpose that are worn on the examiner's hand to prevent contamination between patient and examiner.	Beijing Reagent Latex Products Co., Ltd Nitrile Examination Gloves are disposable devices intended for medical purpose that are worn on the examiner's hand to prevent contamination between patient and examiner.	Identical
Dimensions	Extra-Small: Length: Minimum 220mm Width: 70±10 mm Small: Length: Minimum 220mm	Extra-Small: None Small: Length: Minimum 220mm	Different 1

	Width: 80 ± 10 mm	Width: 80 ± 10 mm		
	Medium:	Medium:	-	
	Length: Minimum 230mm	Length: Minimum 230mm		
	Width: 95 ± 10 mm	Width: 95 ± 10 mm		
	Large:	Large:	-	
	Length: Minimum 230mm	Length: Minimum 230mm		
	Width: 110 ± 10 mm	Width: 110 ± 10 mm		
	Extra- Large:	Extra- Large:	-	
	Length: Minimum 230mm	Length: Minimum 230mm		
	Width: 120 ± 10 mm	Width: 120 ± 10 mm		
	Palm thickness:	Palm thickness:		
Thickness per	Minimum 0.05 mm	Minimum 0.05 mm		
ASTM D6319	Finger thickness: Minimum	Finger thickness: Minimum	Identical	
(for all sizes)	0.05 mm	0.05 mm		
	Tensile Strength:	Tensile Strength:		
Physical Properties	Minimum 14 MPa	Minimum 14 MPa		
Before Aging per	Ultimate Elongation:	Ultimate Elongation:	Identical	
ASTM D6319	Minimum 500%	Minimum 500%		
	Tensile Strength:	Tensile Strength:		
Physical Properties	Minimum 14 MPa	Minimum 14 MPa		
After Aging per	Ultimate Elongation:	Ultimate Elongation:	Identical	
ASTM D6319	Minimum 400%	Minimum 400%		
Water tight (hole				
detection) per	Passes at AQL of 2.5	Passes at AQL of 2.5	Identical	
ASTM D5151				
Powder Residue				
per ASTM D6319	$\leq 2 \text{ mg/glove}$	$\leq 2 \text{ mg/glove}$	Identical	
Biocompatibility:				
1 1	Not an irritant under the	Not an irritant under the		
•	conditions of the study.	conditions of the study.	Identical	
10993-10	5	5		
Biocompatibility:				
	Not a sensitizer under the	Not a sensitizer under the		
Sensitization	conditions of the study.	conditions of the study.	Identical	
per ISO 10993-10	5			
-	Device extracts do not	Device extracts do not		
1 5		pose a systemic toxicity		
Acute Systemic	pose a systemic toxicity			
Acute Systemic Toxicity Test per	pose a systemic toxicity concern under the	concern under the	Identical	

Device Material	Nitrile	Nitrile	Identical
Color	Blue	Blue	Identical
Size Offering	Extra-Small, Small, Medium, Large, Extra- Large	Small, Medium, Large, Extra- Large	Different 1
Number of Uses	Single Use	Single Use	Identical

Different 1:

The models of proposed device are different with predicate device, but all proposed devices are meet the specifications of ASTM D 6319. So we consider this as the proposed device is similar to the predicate device.

IX Conclusion

The conclusion drawn from the nonclinical tests demonstrates that the subject device in 510(k) submission K213739, Nitrile Examination Gloves, is as safe, as effective, and performs as well as or better than the legally marketed predicate device, Snow Lotus Nitrile Examination Gloves, cleared under 510(k) K211515.