June 10, 2021

Shandong Shengshixincheng Medical Science & Technology Co.,
% Boyle Wang
Official Correspondent
Shanghai Truthful Information Technology Co., Ltd.
RM.608,No.738,Shangcheng Rd.,Pudong
Shanghai, Shanghai 200120
China

Re: K210522
Trade/Device Name: Disposable Vinyl Examination Gloves
Regulation Number: 21 CFR 880.6250
Regulation Name: Non-powdered patient examination glove
Regulatory Class: Class I, reserved
Product Code: LYZ
Dated: April 28, 2021
Received: May 5, 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 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 https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-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) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Clarence W. Murray, III, 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

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120
Expiration Date: 06/30/2023
See PRA Statement below.

510(k) Number *(if known)*
K210522

Device Name
Disposable Vinyl Examination Gloves

Indications for Use *(Describe)*
The Disposable Vinyl Examination Gloves are disposable devices intended for medical purposes that are worn on the examiner's hands 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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510(k) Summary

(K210522)

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

1.0 Submitter's Information

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Contact: Ping Wang
Date of Preparation: 06/03/2021

Designated Submission Correspondent

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2.0 Device Information

Trade name: Disposable Vinyl Examination Gloves
Common name: Vinyl Patient Examination Glove
Classification name: Non-powdered Patient Examination Glove
Model(s): S, M, L, XL

3.0 Classification

Production code: LYZ
Regulation number: 21CFR880.6250
Classification: Class I
Panel: General Hospital

4.0 Predicate Device Information

Manufacturer: Hebei Hongtai Plastic Products Company Limited
Device: Vinyl Patient Examination Gloves (White, Blue, Yellow)
510(k) number: K163168

5.0 Indication for Use

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

6.0 Device Description

The subject device is powder free vinyl patient examination gloves. The subject devices have two color: blue and clear. The design of subject device is addressing the standards as ASTM D6124, ASTM D5151, and ASTM D5250. The subject device is non-sterile.

7.0 Technological Characteristic Comparison Table

Table1-General Comparison

Item	Subject device	Predicate device	Comparison
510(k) number	K210522	K163168	/
Product Code	LYZ	LYZ	Same
Regulation No.	21CFR880.6250	21CFR880.6250	Same
Class	I	I	Same
Intended Use	The Disposable Vinyl Examination Gloves are disposable devices intended for medical purposes that are worn on the examiner's hands to prevent contamination between patient and examiner.	The Vinyl Examination Glove (White, Blue, or Yellow) is a disposable device intended for medical purposes that is worn on the examiner's hands to prevent contamination between patient and examiner.	Same
Color	Blue, Clear	White, Blue, or Yellow	Different
Powdered or Powered free	Powdered free	Powdered free	Same
Design Feature	Ambidextrous	Ambidextrous	Same
Labeling Information	Single use, powder free, device color, device name, glove size and quantity, product name, Non-Sterile	Single use, powder free, device color, device name, glove size and quantity, product name, Non-Sterile	Similar

Analysis: The proposed device has different colors as compared to the predicate device. To address this concern, biocompatibility test has been performed on proposed device and the test result can meet the requirements of ISO 10993 standards.

Table2 Device Dimensions Comparison

Predicate Device(K163168)	Designation	Size					Tolerance
		XS	S	M	L	XL	
	Length, mm	230	230	235	245	245	min
	Width, mm	80	85	95	105	115	±5
	Thickness, mm:						
	Finger	0.05					min
	Palm	0.08					min
Subject Device(K210522)	Designation	Size					Tolerance
		S		M	L	XL	
	Length, mm	230		230	230	230	min
	Width, mm	85		95	105	115	±5
	Thickness, mm:						
	Finger	0.08					min
	Palm	0.08					min
Remark	Similar						

Analysis: The physical dimensions are different with that of the predicate, but they all meet the requirements of ASTM D5250.

Table3 Performance Comparison

Item			Subject device (K210522)	Predicate device (K163168)	Comparison
Colorant			Clear，Blue	White, Blue, Yellow	Different
Physical Properties	Before Aging	Tensile Strength	14MPa, min	15MPa, min	Analysis
		Ultimate Elongation	500%min	380%min	Analysis
	After Aging	Tensile Strength	14MPa, min	15MPa, min	Analysis
		Ultimate Elongation	400%min	380%min	Analysis
	Comply with ASTM D5250			Comply with ASTM D5250	Same
Freedom from Holes			Be free from holes when tested in accordance with ASTM D5151 AQL=2.5	Be free from holes when tested in accordance with ASTM D5151 AQL=2.5	Same
Powder Content			Meet the requirements of ASTM D6124	Meet the requirements of ASTM D6124	Similar

Analysis: 1. The proposed device has different colorants as compared to the predicate device. To address

this concern, biocompatibility test has been performed on proposed device and the test result can meet the requirements of ISO 10993 standards.

2.The tensile strength and ultimate elongation are different with that of the predicate, but they all meet the requirements of ASTM D5250.

Table4 Safety Comparison

Item		Subject device (K210522)	Predicate device (K163168)	Comparison
Material		Vinyl	Vinyl	Same
Biocompatibility	Irritation	Under the conditions of the study, not an irritant	Comply with ISO10993-10	Same
	Sensitization	Under conditions of the study, not a sensitizer.		
	Cytotoxicity	Under conditions of the study, did not show potential toxicity to L-929 cells.	Not provided	Different
Label and Labeling		Meet FDA's Requirement	Meet FDA's Requirement	Same

8.0 Discussion of Non-clinical and Clinical Test Performed

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 10993-10:2010 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

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

ASTMD5151-19, Standard Test Method for Detection of Holes in Medical Gloves.

ASTM D5250-19, Standard Specification for Poly (vinyl chloride) Gloves for Medical Application.

9.0 Clinical Test Conclusion

Clinical testing is not needed for this device.

10.0 Conclusion

The conclusions drawn from the nonclinical tests demonstrate that the proposed device, Disposable Vinyl Examination Gloves, are as safe, as effective, and performs as well as or better than the legally marketed predicated device in K163168.