



May 26, 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: K210520

Trade/Device Name: Disposable Synthetic 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 15, 2021  
Received: April 19, 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](mailto:DICE@fda.hhs.gov)) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

For Ryan Ortega  
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)  
K210520

Device Name  
Disposable Synthetic Examination Gloves

Indications for Use (Describe)

A patient examination glove is a disposable device intended for medical purposes that is worn upon 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)

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# 510(k) Summary

## (K210520)

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

### **1.0 Submitter's Information**

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Changshan Town,Zouping, Binzhou,Shandong Province, China.  
Phone Number: +86-15550323002  
Contact: Ping Wang  
Date of Preparation: 04/15/2021

### **Designated Submission Correspondent**

Mr. Boyle Wang  
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Email: [Info@truthful.com.cn](mailto:Info@truthful.com.cn)

### **2.0 Device Information**

Trade name: Disposable Synthetic 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: Zibo Huiying Medical Products, Co. Ltd.  
Device: Synmax Synthetic Patient Examination Vinyl Gloves,Powder Free,Blue  
510(k) number: K153028

### 5.0 Indication for Use

A patient examination glove is a disposable device intended for medical purposes that is worn upon the examiner’s hands to prevent contamination between patient and examiner.

### 6.0 Device Description

The subject device is powder free vinyl synthetic patient examination gloves. The subject device is blue. 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	Predicated device	Comparison
510(k) number	K210520	K153028	/
Product Code	LYZ	LYZ	Same
Regulation No.	21CFR880.6250	21CFR880.6250	Same
Class	I	I	Same
Intended Use	A patient examination glove is a disposable device intended for medical purposes that is worn upon the examiner’s hands to prevent contamination between patient and examiner.	A patient examination glove is a disposable device intended for medical purposes that is worn upon the examiner’s hands or fingers to prevent contamination between patient and examiner.	Same
Powdered or Powdered 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

**Table2 Device Dimensions Comparison**

Predicate Device(K153028)	Designation	Size	Tolerance
	Length, mm	Average over 234 on M size	-

	Width, mm	Average over 96 on M size				-
	Thickness, mm:					
	Finger	Average 0.098				-
	Palm	Average 0.096				-
Subject Device(K210520)	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,so the differences do not raise any new safety or performance questions.

**Table3 Performance Comparison**

Item			Subject device (K210520)	Predicated device (K153028)	Comparison
Colorant			Blue	Blue	Same
Physical Properties	Before Aging	Tensile Strength	11MPa, min	Average 16.9MPa	Analysis
		Ultimate Elongation	300%min	Average 550%	Analysis
	After Aging	Tensile Strength	11MPa, min	Average 14.4MPa, min	Analysis
		Ultimate Elongation	300%min	Average 500%	Analysis
	Comply with ASTM D5250				Comply with ASTM D5250
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			0.01 mg per glove, Meet the requirements of ASTM D6124	Meet the requirements of ASTM D6124	Similar

Analysis: The tensile strength and ultimate elongation are different with that of the predicate, but they all meet the requirements of ASTM D5250,so the differences do not raise any new safety or performance questions.

**Table4 Safety Comparison**

Item		Subject device (K210520)	Predicated device (K153028)	Comparison
Material		Poly Vinyl Chloride Polyurethane Nitrile Di-(2-ethylhexyl) Terephthalate(DOTP)	Poly Vinyl Chloride Polyurethane Diisononyl Phthalate (DINP)	Similar
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.	/	Different
Label and Labeling		Meet FDA's Requirement	Meet FDA's Requirement	SAME

Analysis: The materials of the subject device are little different with that of the predicate, but they all meet the performance requirements of ASTM D5250, also biocompatibility test has been performed on subject device and the test result can meet the requirements of ISO 10993 standards. Therefore, the differences will not raise any safety and effectiveness issues on performance and biocompatibility.

## **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 is as safe, as effective, and performs as well as or better than the legally marketed predicated device under K153028.