

January 21, 2022

Jiangsu Huayuan Medical Technology Co., Ltd. % Boyle Wang Official Correspondent Shanghai Truthful information Technology Co., Ltd. RM. 1801, No. 161 Lujiazui East Rd.,Pudong Shanghai, Shanghai 200120 China

Re: K213044

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: December 7, 2021 Received: December 20, 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 <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,

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

Indications for Use

510(k) Number *(if known)* K213044

Device Name Nitrile Examination Gloves

Indications for Use (Describe)

The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands 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.

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510(k) Summary K213044

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

1.0 Submitter's Information

 Name: Jiangsu Huayuan Medical Technology Co.,Ltd.
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Phone Number: +86-18252909158
Contact: Ms.Yun Gao
Date of Preparation: Sept.2, 2021

Designated Submission Correspondent

Mr. Boyle Wang Shanghai Truthful Information Technology Co., Ltd. Room 1801, No. 161 East Lujiazui Rd., Pudong,Shanghai 200120 ,China Tel: +86-21-50313932 Email: Info@truthful.com.cn

2.0 Device Information

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

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 Indication for Use

The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.

6.0 Device Description

The subject device is powder free nitrile examination gloves. The subject device is blue. It can be available in six specifications: XS,S,M,L XL and XXL. The subject device is non-sterile.

7.0 Technological Characteristic Comparison Table

Table I-General Comparison							
ltem	Subject Device	Predicated Device	Remark				
nem	(K213044)	(K171422)					
Product Code	LZA	LZA	Same				
Regulation No.	21CFR880.6250	21CFR880.6250	Same				
Class	I	l	Same				
Intended Use	The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.	The Nitrile Powder Free patient examination glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.	Same				
Material	Nitrile	Nitrile	Same				
Powdered or Powered free	Powdered free	Powdered free	Same				
Design Feature	Ambidextrous	Ambidextrous	Same				
Colorant	Blue	White/Blue/ Black/ Pink	Different Analysis 1				
Labeling Information	Single-use indication, powder free, device color, device name, glove size and quantity, Non-Sterile	Single-use indication, powder free, device color, device name, glove size and quantity, Non-Sterile	Same				
Dimensions(mm)	Length: XS/S: ≥220;	Length: XS/S/M/L/XL: ≥230;	Different Analysis 2				

Table1-General Comparison

M/L/XL/XXL: ≥230;			Width:			
Wi/L/AL/AAL. ≥230; Width:		XS: 87±5;				
XS: 70±10;		S: 85±5;				
		S: 80±10;		M: 95±5;		
		M: 95±10;		L: 105±5;		
		L: 110±10;		XL: 115±5		
		L: 110±10; XL: 120±10;		AL. 11010		
		XL: 120±10; XXL: 130±10				
				Einger: >0.05		
Thicknes	s(mm)	Finger: ≥0.05; Palm: ≥0.05		Finger: ≥0.05; Palm: ≥0.05		Same
		Tensile	, 14MPa,	Tensile	, 14MPa,	Same
	Befor	Strength	min	Strength	min	Same
	е	Ultimate	11111	Ultimate		Same
Physical	Aging		500% min		500% min	Same
Properti		Elongation Tensile		Elongation Tensile		Sama
es	After		14MPa,		14MPa, min	Same
		Strength	min	Strength	min	Como
	Aging	Ultimate	400%min	Ultimate	400%min	Same
		Elongation		Elongation		Same
F ue e de m			Be free from holes when		Be free from holes when	
Freedom		tested in accordance		tested in accordance		
Hole	es	with ASTMD5151		with ASTMD5151		
		AQL=2.5		AQL=2.5		
Powder C	Content	Meet the requirements of		Meet the requirements of		Same
		ASTM D6124		ASTM D6124		
		ISO 10993-5 Under conditions of the study, device extract is		N.A.		/
		cytotoxic				
ISO 10993-10;		ISO 10993-10;		Same		
Under the con						
		the study, not an irritant		-		
Biocompatibility or a sensitizer		or a sensitizer				
ISO 10993-11; Under the condition of acute systemic toxicity test, the test article did not show acute systemic toxicity in vivo.				/		
				N.A.		
			-			

Analysis 1: The subject device (Blue) has different color to the predicate device (White/ Blue/ Black/ Pink), but all proposed devices are conducted the biocompatibility test.

Analysis 2: The physical dimensions are different with that of the predicate, but they all meet the requirements of ASTM D6319.

8.0 Summary of Non-clinical 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 D6319-19, Standard Specification for Nitrile Examination Gloves for Medical Application.

Test	Purpose	Acceptance Criteria	Results
Method			
ASTM D6319		Length(mm):	Length(mm):
		XS/S: ≥220;	XS/S/M/L/XL/XXL:
		$M/L/XL/XXL: \geq 230;$	> 240/Pass;
		Width(mm):	Width(mm):
		XS: 70±10;	XS: 74-78 /Pass
	Physical	S: 80±10;	S: 82-88 /Pass
	Dimensions	M: 95±10;	M: 95-99/ Pass
	Test	L: 110±10;	L: 106-109/ Pass
		XL: 120±10;	XL:110-116/ Pass
		XXL: 130±10	XXL: 127-129/ Pass
		Thickness (mm):	Thickness (mm):
		Finger: ≥0.05	Finger: 0.16-0.18/Pass
		Palm: ≥0.05	Palm: 0.12-0.14/Pass
ASTM	Watertightness	Meet the requirements of ASTM D5151	XS: 0/125/Pass

Table 2 - Summary of non-clinical performance testing

D5151	Test for	AQL 2.5			S: 0/125/Pass
	Detection of			M: 0/125/Pass	
	Holes			L: 1/124/Pass	
	TIOLES				
					XL: 0/125/Pass
					XXL: 0/125/Pass
ASTM	Powder	Meet the r	equirements of A	ASTM D6124 <	0.08~0.14mg/Pass;
D6124	Content	2.0mg	1	1	
		Before	Tensile	≥14MPa	14-30MPa/Pass;
		Aging	Strength		
			Ultimate	≥500%	548-1173%/Pass;
ASTM	Physical		Elongation		
D412	properties	After	Tensile	≥14MPa	14-20MPa/Pass;
		Aging	Strength		
			Ultimate	≥400%	578-810%/Pass;
			Elongation		
ISO	Cytotoxicity	toxicity		L	Under conditions of
10993-5					the study, device
					extract is cytotoxic.
ISO	Cytotoxicity	Non- acute	e systemic	Under conditions of	
10993-11		toxicity	toxicity		the study, did not
					show acute systemic
					toxicity in vivo / Pass
ISO	Irritation	Non-irritati	ing	Under the conditions	
10993-10					of the study, not an
					irritant/ Pass
ISO	Sensitization	Non-sensi	Non-sensitizing		Under conditions of
10993-10					the study, not a
					sensitizer./ Pass
1					

9.0 Summary of Clinical Testing

Clinical testing is not needed for this device.

10.0 <u>Conclusion</u>

The conclusions drawn from the nonclinical tests demonstrate that the subject device

Nitrile Examination Gloves is as safe, as effective, and performs as well as or better than the legally marketed predicated device in K171422.