

January 11, 2022

Xingyu Medical Tech Co., Ltd. % Eva Li Consultant Shanghai Sungo Management Consulting Company Limited Room 1309, Dongfang Building, 1500#Century Ave Shanghai, Shanghai 200122 China

Re: K212735

Trade/Device Name: Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs) Regulation Number: 21 CFR 880.6250 Regulation Name: Non-Powdered Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LZA, LZC Dated: December 16, 2021 Received: December 16, 2021

Dear Eva Li:

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, Ph.D. 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)* K212735

Device Name

Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs)

Indications for Use (Describe)

The Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs) are a disposable device intended for medical purposes that is worn on the examiner's hand to prevent contamination between patient and examiner. Summarized in Table 1 below, the proposed device was tested for use with chemotherapy drugs per ASTM D6978-05 (2019) Standard Practice for Assessment of Medical Gloves to Permeation by Chemotherapy Drugs.

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Chemotherapy Drug	Concentration	Breakthrough time
Carmustine (BCNU)	3.3mg/ml (3,300ppm)	47.9(68.2,47.9,69.3)
Cyclophosphamide (Cytoxan)	20.0mg/ml (20,000ppm)	>240 min
Doxorubicin HCI	2.0 mg/ml (2,000ppm)	>240 min
Etoposide	20.0 mg/ml (20,000ppm)	>240 min
Fluorouracil	50.0 mg/ml (50,000ppm)	>240 min
Paclitaxel	6.0 mg/ml (6,000ppm)	>240 min
ThioTepa	10.0 mg/ml (10,000ppm)	>240 min
Bleomycin Sulfate(Blenoxane)	15mg/ml (15,000ppm)	>240 min
Carboplatin	10 mg/ml (10,000ppm)	>240 min
Cisplatin	1.0 mg/ml (1,000ppm)	>240 min
Cytarabine	100mg/ml(100,000ppm)	>240 min
Dacarbazine	10.0mg/ml (10,000ppm)	>240 min
Idarubicin HCL	1mg/ml (1,000ppm)	>240 min
Ifosfamide	50mg/ml (50,00ppm)	>240 min
Mechlorethamine HCL	1mg/ml (1,000ppm)	>240 min
MESNA	100mg/ml (100,000ppm)	>240 min
Methotrexate	25mg/ml (25,000ppm)	>240 min
Mitomycin C (0.5 mg/ml (500ppm)	>240 min
Mitoxantrone	2mg/ml(2,000ppm)	>240 min
Trisenox	1 mg/ml(1,000ppm)	>240 min
Vincristine Sulfate	1 mg/ml (1,000ppm)	>240 min
Do Not Use with Carmustine (BCNU).	

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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XINGYU MEDICAL TECH CO., LTD.

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NO.2189 YAOQIAN ROAD, GAOMI ECONOMIC DEVELOPMENT ZONE, WEIFANG CITY, SHANDONG PROVINCE,

CHINA

510K Summary

The assigned 510(k) number is: <u>K212735</u>

Premarket Notification [510(k)] Summary

1. Submitter / 510(k) Sponsor:

Submitter's name :XINGYU MEDICAL TECH CO.,LTD.Submitter's Address:NO.2189 YAOQIAN ROAD, GAOMI ECONOMIC DEVELOPMENT ZONE,WEIFANG CITY, SHANDONG PROVINCE, CHINA0086-18263618867Phone number:0086-18263618867Contact person:Cathrine LuanEmail:cathrine@xingyugloves.com

Submission Correspondent Primary contact: Ms. Eva Li Shanghai SUNGO Management Consulting Co., Ltd. Room 1309, Dongfang Building, 1500# Century Ave., Shanghai 200122, China Tel: +86-21-58817802 Email: <u>eatereva@hotmail.com</u> Secondary contact: Mr. Raymond Luo Room 1309, Dongfang Building, 1500# Century Ave., Shanghai 200122, China Tel: +86-21-68828050 Email: <u>fda.sungo@gmail.com</u>

Date of Preparation: 2021-12-14

2. Proposed Device

Device Name / Classification Trade Name: Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs)

Common Name: Patient examination glove

Classification Name: Medical Gloves with Chemotherapy Labeling Claims – Test For Use with Chemotherapy Drugs **Product Code:** LZA. LZC

Product Code: LZA. LZC

Classification Panel: General Hospital

Regulatory Class: Class I

Regulation Number: 21 CFR 880.6250

3. Predicate Device

Device Name: Medline Nitrile Powder-Free Dark Blue Examination Gloves (Tested for use with

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Chemotherapy Drugs) Company Name: Medline Industries, Inc. 510(K) Number: K200960

4. Device Description

The Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs) are nonsterile, single use only, disposable examination gloves intended for medical purposes to be worn by examiners to prevent contamination between the patient and the examiner. The gloves are blue, powder free, nitrile gloves. The gloves are offered in sizes small, medium, large, extra large, and packaged in a color paper box.

The gloves are designed and manufactured in accordance with the ASTM D6319-19 standard and are tested for use with chemotherapy drugs per ASTM D6978-05(2019).

5. Indications for Use

The Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs) are a disposable device intended for medical purposes that is worn on the examiner's hand to prevent contamination between patient and examiner. Summarized in Table 1 below, the proposed device was tested for use with chemotherapy drugs per ASTM D6978-05(2019) Standard Practice for Assessment of Medical Gloves to Permeation by Chemotherapy Drugs.

Chemotherapy Drug	Concentration	Breakthrough time
Carmustine (BCNU)	3.3mg/ml (3,300ppm)	47.9
		(68.2,47.9,69.3)
Cyclophosphamide	20.0mg/ml (20,000ppm)	> 240 min
(Cytoxan)		
Doxorubicin HCI	2.0 mg/ml (2,000ppm)	> 240 min
Etoposide	20.0 mg/ml (20,000ppm)	> 240 min
Fluorouracil	50.0 mg/ml (50,000ppm)	> 240 min
Paclitaxel	6.0 mg/ml (6,000ppm)	> 240 min
ThioTepa	10.0 mg/ml (10,000ppm)	> 240 min
Bleomycin	15mg/ml (15,000ppm)	> 240 min
Sulfate(Blenoxane)		
Carboplatin	10 mg/ml (10,000ppm)	> 240 min
Cisplatin	1.0 mg/ml (1,000ppm)	> 240 min
Cytarabine	100mg/ml(100,000ppm)	> 240 min
Dacarbazine	10.0mg/ml (10,000ppm)	> 240 min
Idarubicin HCL	1mg/ml (1,000ppm)	> 240 min
Ifosfamide	50mg/ml (50,00ppm)	> 240 min
Mechlorethamine HCL	1mg/ml (1,000ppm)	> 240 min
MESNA	100mg/ml (100,000ppm)	> 240 min
Methotrexate	25mg/ml (25,000ppm)	> 240 min
Mitomycin C	0.5 mg/ml (500ppm)	> 240 min
Mitoxantrone	2mg/ml(2,000ppm)	> 240 min

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Trisenox	1 mg/ml(1,000ppm)	> 240 min
Vincristine Sulfate	1 mg/ml (1,000ppm)	> 240 min

Do Not Use with Carmustine (BCNU).

6. Summary of Technological Characteristics

Table2: Comparison of Proposed and Predicate Devices

Device	Proposed Device	Predicate Device	Comparison
Characteristic			Analysis
Product Name	Nitrile disposable examination	Medline Nitrile Powder Free	
	gloves (Tested for use with	Dark Blue Examination Gloves	
	Chemotherapy Drugs)	(Tested for use with	
		Chemotherapy Drugs)	
510(k)	K212735	К200960	
Reference			
Product Owner	XINGYU MEDICAL TECH CO.,LTD.	Medline	
Product Code	LZA, LZC	LZA, LZC	Same
Intended Use	A patient examination glove is a	A patient examination glove is a	Same
	disposable device intended for	disposable device intended for	
	medical purposes that is worn on	medical purposes that is worn	
	the examiner's hand to prevent	on the examiner's hand to	
	contamination between patient	prevent contamination between	
	and examiner. These gloves were	patient and examiner. These	
	tested for use with	gloves were tested for use with	
	chemotherapy drugs.	chemotherapy drugs.	
Regulation	21 CFR 880.6250	21 CFR 880.6250	Same
Number			
Design	Blue	Dark Blue	Similar
Configurations			
Materials	Nitrile	Nitrile	Same
Prescription vs.	ОТС	отс	Same
OTC			
Contact	Limited ≤ 24 hours	Limited ≤ 24 hours	Same
Durations			
Sterile vs. Non-	Non-Sterile	Non-Sterile	Same
Sterile			
Disposable vs.	Disposable	Disposable	Same
Non-Disposable			
Single Use vs.	Single Use	Single Use	Same
Reusable			
Dimensions-	Complies with: ASTM D6319-19	Complies with: ASTM D6319-10	Same
Width	70mm min	70mm min	
Dimensions-	Complies with: ASTM D6319-19	Complies with: ASTM D6319-10	Same

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				1			1
Thickness	Palm – 0.05mm min. Finger –			Palm – 0.05mm min. Finger –			
	0.05mm min			0.05mm min			
Physical	Complies with: ASTM D6319-19			Complies w	th: ASTM	D6319-10	Same
Properties	minimum:			minimum:			
	Tensile Strength:			Tensile Stre	ngth:		
	Before Aging ≥14 MPa, min.			Before Agin	-	. min.	
	-	-		After Aging	-		
		fter Aging ≥14 MPa, min.			Before Agi		
	min.	ngation: Before Aging 500%,		min.	Delote Agi	ng 50070,	
		4000/			4000/		
		, 400%, min.		After Aging			
Freedom from	•	ith: ASTM D		Complies w			Same
holes	and ASTM	D5151-19 G-	1,	and ASTM D	5151-06 @	5-1 <i>,</i>	
	AQL 1.5			AQL 1.5			
Powder or	Powder Fre	e		Powder Free	2		Same
Powder Free							
Residual	Complies w	ith ASTM D6	5319-19	Complies w	th ASTM [06319-10	Same
Powder	-						
Biocompatibility	Complies w	ith AAMI/AN	NSI/ISO	Complies with AAMI/ANSI/ISO			Same
,	10993-10: Not a skin irritant Not		10993-10: Not a skin irritant				
		itizer AAMI/A		Not a skin sensitizer AAMI/ANSI/ ISO 10993-11: Non-			
	10993-11:	-	11051/150				
	10995-11.	NUII-TUXIC					
		1		Toxic			
Chemotherapy	Chemotherapy Drug		Breakthrough time₽	Chemotherapy Drug	Concentration	Breakthrough time	Simliar
Drugs Tested	Carmustine (BCNU)+2	3.3mg/ml (3,300ppm)+	47.9↔ (68.2,47.9,69.3)↔	Carmustine (BCNU)	3.3 mg/ml (3,300 ppm)	12.4 minutes	-
with Minimum	Cyclophosphamide (Cytoxan)↩	20.0mg/ml (20,000ppm)		Cisplatin	1.0 mg/ml (1,000 ppm)	>240 minutes	-
Breakthrough	Doxorubicin HCle ² Etoposide ²	2.0 mg/ml (2,000ppm)↔ 20.0 mg/ml	> 240 min+ ² > 240 min+ ²	Cyclophosphamide (Cytoxan)	20.0 mg/ml (20,000 ppm)	>240 minutes	
Detection Time	Fluorouracil	(20,000ppm)+ ² 50.0 mg/ml	> 240 min+2	Dacarbazine (DTIC)	10.0 mg/ml (10,000 ppm)	>240 minutes	
as tested per	Paclitaxel+	(50,000ppm)+ ² 6.0 mg/ml (6,000ppm)+ ²		Doxorubicin Hydrochloride	2.0 mg/ml (2,000 ppm)	>240 minutes	-
ASTM D6978	ThioTepa ²	10.0 mg/ml (10,000ppm)↔	> 240 min+ ²	Etoposide (Toposar)	20.0 mg/ml (20,000 ppm)	>240 minutes	-
	Bleomycin Sulfate(Blenoxane)+ ²	15mg/ml (15,000ppm)₽	> 240 min+ ³	Fluorouracil	50.0 mg/ml	>240 minutes	-
	Carboplatin↔ Cisplatin↔	10 mg/ml (10,000ppm)+7 1.0 mg/ml	> 240 min+? > 240 min+?	Methotrexate	(50,000 ppm) 25 mg/ml (25,000 ppm)	>240 minutes	-
	Cytarabine ²	(1,000ppm) + 100mg/ml(100,000ppm)		Mitomycin C	0.5 mg/ml (500	>240 minutes	-
	Dacarbazine ⁴³ Idarubicin HCL ⁴³	10.0mg/ml (10,000ppm) 1mg/ml (1,000ppm)라	i∉ > 240 mine > 240 mine	Paclitaxel (Taxol)	ppm) 6.0 mg/ml (6.000 mmm)	>240 minutes	-
	Ifosfamide+ ² Mechlorethamine	50mg/ml (50,00ppm)↔ 1mg/ml (1,000ppm)↔	> 240 min+? > 240 min+?	Thio Tepa	(6,000 ppm) 10.0 mg/ml (10.000 ppm)	27.4 minutes	-
	HCLe ² MESNAe ²	100mg/ml	> 240 min+2		(10,000 ppm)	>240 minutes	-
	Methotrexate 4	(100,000ppm)↔ 25mg/ml (25,000ppm)↔	> 240 min+ ²	Vincristine Sulfate (Oncovin)	1.0 mg/ml (1,000 ppm)		-
	Mitomycin C+ ³ Mitoxantrone+ ³	0.5 mg/ml (500ppm)+ ² 2mg/ml(2,000ppm)+ ²	> 240 min-?	Do Not Use with Car	mustine or Thioter	Da	
	Trisenox+2	1 mg/ml(1,000ppm)↔	> 240 min+2				
	Vincristine Sulfate	1 mg/ml (1,000ppm)관 nustine (BCNU).관	> 240 mine ³				

7. Summary of Non-Clinical Testing

Physical performance qualities of the proposed device were evaluated per ASTM D6319- 19, Standard Specification for Nitrile Examination Gloves for Medical Application. Permeation testing was conducted to support the addition of the labeling claim: Tested for use with NO.2189 YAOQIAN ROAD, GAOMI ECONOMIC DEVELOPMENT ZONE, WEIFANG CITY, SHANDONG PROVINCE,

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chemotherapy drugs. In addition, the proposed device was tested according to ASTM D6978-05(2019), Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs, in which minimum breakthrough times were determined for a wide range of chemotherapy drugs

To summarize, the performance testing of the subject device were conducted to adequately demonstrate the effectiveness of the device in accordance with the relevant test methods cited below:

ASTM D 6319-19 Standard Specification for Nitrile Examination Gloves for Medical Application ASTM D 6124-06 (2017) Standard Test Method for Residual Powder on Medical Gloves

ASTM D 5151-19 Standard Test Method for Detection of Holes in Medical Gloves

ASTM D 6978-05(2019) Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs

Test standard followed	Test conducted	Acceptance criteria						Conclusion
				S	М	L	XL	
		Length	Length (mm)			≥230		pass
	Physical	Width (mm) ±10	80±10	95±10	110±10	120±10	pass
	Dimensions	Thicknes	Finger		≥0.0)5 mm		pass
ASTM D6319-19		S	Palm		≥0.0)5 mm		pass
	Physical	Before A	ging	Tensile	≥14Mpa	; Elongati	on ≥	pass
	properties	After Aging		500%				
				Tensile \geqslant 14Mpa; Elongation \geqslant				pass
				400%				
ASTM D6319-19	Watertight							
Test method in	ness Test	Batch size=35000, sample 125 ≤7						
accordance with	for detection						pass	
ASTM D5151-19	of holes							
ASTM standard								
D 6319-19	Powder							
Test method in		≤2 (mg/glove)						pass
accordance with	Residual							
D6124-06(2017)								

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ASTM D 6978-	Chemotherapy	Chemotherapy Drug	Concentration ²	Breakthrough time₽	4		——	——	——
05(2010)	Drugs Tested	Carmustine (BCNU)+3	3.3mg/ml (3,300ppm)↔	47.9¢ ¹ (68.2,47.9,69.3)¢ ²	4				
05(2019)	with Minimum	Cyclophosphamide (Cytoxan)न्	20.0mg/ml (20,000ppm)+	> 240 min+ ²	1				
	Dura dati wa wali	Doxorubicin HCI+2	2.0 mg/ml (2,000ppm)↔	> 240 mine	4				
	Breakthrough	Etoposide₽	20.0 mg/ml	> 240 min+2	4				
	.		(20,000ppm)+ ²						
	Detection	Fluorouracile	50.0 mg/ml	> 240 min+2	4				
	 .		(50,000ppm)+ ²						
	Time	Paclitaxel+2	6.0 mg/ml (6,000ppm)+	> 240 min+2	4				
			10.0 mg/ml (10,000ppm)관	> 240 min+ ³	4				
		Bleomycin Sulfate(Blenoxane)+	15mg/ml (15,000ppm)+ ³	> 240 min40	4				
		Carboplatin₽	10 mg/ml (10,000ppm)+ ²	> 240 min+3	4				
		Cisplatin+2	1.0 mg/ml	> 240 min+2	4				
			(1,000ppm) 🖓						
		Cytarabine ²	100mg/ml(100,000ppm)+	> 240 min+3	4				
		Dacarbazine ²	10.0mg/ml (10,000ppm)+	> 240 min+3	4				
		Idarubicin HCL+	1mg/ml (1,000ppm)+ ³	> 240 min+3	4				
		Ifosfamide+2	50mg/ml (50,00ppm)↔	> 240 min+3	1	1			
		Mechlorethamine HCL+2	1mg/ml (1,000ppm)↔	> 240 min+ ³		4	4	4	4
		MESNA+2	100mg/ml (100,000ppm)₽	> 240 mine ³		4	4	4	4
		Methotrexate P	25mg/ml (25,000ppm)+3	> 240 min+3	1	4	4	4	1
		Mitomycin C+2	0.5 mg/ml (500ppm)+3	> 240 min+3	-	4	4	4	4
		Mitoxantrone+2	2mg/ml(2,000ppm)+3	> 240 min+3	4				
		Trisenox+2	1 mg/ml(1,000ppm)+2	> 240 min+2	4				
		Vincristine Sulfate↔	1 mg/ml (1,000ppm)↔	> 240 min+2	4				
		Do Not Use with Carm	ustine (BCNU).~						
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8. Biocompatibility

The following tests were performed to evaluate the biocompatibility of the Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs)

- ISO 10993-10: Primary Skin Irritation
- ISO 10993-10: Dermal Sensitization
- ISO 10993-11: Acute Systemic Toxicity

Test conducted	Standard	Acceptance criteria	Result
Biocompatibility	Skin Irritation Test Extraction Method ISO 10993-10: 2010	non-irritation	Passes Under the conditions of the study, the subject device is non- irritation
	Skin sensitization the guinea pig maximization ISO 10993- 10: 2010	non- sensitization	Passes Under the conditions of the study, the subject device is non-sensitization
	Acute Systemic Toxicity Test ISO 10993-11: 2017	non- acute systemic toxicity	Passes Under the conditions of the study, the subject device is non-acute systemic toxicity

9. Conclusion

Based on the nonclinical tests data, it can be concluded that the Nitrile disposable examination gloves (Tested for use with Chemotherapy Drugs) is as safe, as effective, and performs as well as the predicate device, Medline Nitrile Powder-Free Dark Blue Examination Gloves (Tested for use with Chemotherapy Drugs) by Medline Industries, Inc. K200960.