

December 11, 2022

Inner Mongolia Boming Medical Supplies Co., Ltd. % Boyle Wang Official Correspondent Shanghai Truthful Information Technology Co., Ltd. RM. 1801, No. 161 East Lujiazui Rd.,Pudong Shanghai, 200120 China

Re: K222733

Trade/Device Name: Disposable Nitrile Examination Glove (Tested for use with Chemotherapy Drugs) Regulation Number: 21 CFR 880.6250 Regulation Name: Patient Examination Glove Regulatory Class: Class I, reserved Product Code: LZA, LZC, OPJ Dated: November 14, 2022 Received: November 14, 2022

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,

Bifeng Qian -S

Bifeng Qian., M.D., 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)* K222733

Device Name

Disposable Nitrile Examination Glove(Tested for Use with Chemotherapy Drugs)

Indications for Use (Describe)

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

These gloves were tested for use with chemotherapy drugs, as per ASTM D6978-05 (Reapproved 2019) Standard Practice for Assessment of Medical Gloves to Permeation by Chemotherapy Drugs.

Chemotherapy Drug	Concentration	Breakthrough Detection Time in Minutes
Carmustine (BCNU)	3.3 mg/ml (3,300 ppm)	23.7 Minutes
Cisplatin	1.0 mg/ml(1,000 ppm)	240 Minutes
Cyclophosphamide (Cytoxan)	20.0 mg/ml(20,000 ppm)	240 Minutes
Dacarbazine (DTIC)	10.0 mg/ml(10,000 ppm)	240 Minutes
Doxorubicin HCl	2.0 mg/ml(2,000 ppm)	240 Minutes
Etoposide	20.0 mg/ml(20,000 ppm)	240 Minutes
Fluorouracil	50.0 mg/ml(50,000 ppm)	240 Minutes
Methotrexate	25 mg/ml(25,000 ppm)	240 Minutes
Mitomycin C	0.5 mg/ml(500 ppm)	240 Minutes
Paclitaxel	6.0 mg/ml(6,000 ppm)	240 Minutes
Thio Tepa	10.0 mg/ml(10,000 ppm)	45.7 Minutes
Vincristine Sulfate	1.0 mg/ml(1,000 ppm)	240 Minutes

Please note that the following drugs have low permeation times: Carmustine (BCNU) 3.3 mg/ml 23.7 Minutes Thio-Tepa 10.0 mg/ml 45.7 Minutes

Caution: Testing showed an average breakthrough time of 45.7 minutes with Thio-Tepa

WARNING: Do not use with Carmustine 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

K222733

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

1.0 Submitter's Information

Name:	Inner Mongolia Boming Medical Supplies Co., Ltd.
Address:	Room 326, New Industrial Park Management Committee Office,
	Tumet Right Banner, Baotou City, Inner Mongolia Autonomous
	Region, China
Contact:	Guo Hua
Tel:	+86-13485097856

Designated Submission Correspondent

Mr. Boyle Wang
Shanghai Truthful Information Technology Co., Ltd.
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200120 China
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Date submitted: Dec.7,2022

2.0 Device Information

Trade name:	Disposable Nitrile Examination Glove (Tested for Use with
	Chemotherapy Drugs)
Common name:	Patient Examination Gloves
Classification name:	Non-powdered patient examination glove
Model(s):	XS,S, M, L, XL
Production code:	LZA,LZC, OPJ
Regulation number:	21CFR880.6250
Classification:	Class I
Panel:	General Hospital

3.0 Predicate Device Information

Manufacturer:	Medline Industries, Inc.
Device:	Medline Powder-Free Light Blue Nitrile Exam Glove (Tested for
	Use with Chemotherapy Drugs)

510(k) number: K201390

4.0 Indication for Use

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

These gloves were tested for use with chemotherapy drugs, per ASTM D6978-05 *Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.*

Chemotherapy Drug	Concentration	Breakthrough Detection
		Time in Minutes
Carmustine (BCNU)	3.3 mg/ml (3,300 ppm)	23.7
Cisplatin	1.0 mg/ml(1,000 ppm)	> 240
Cyclophosphamide	20.0 mg/ml(20,000 ppm)	> 240
(Cytoxan)		
Dacarbazine (DTIC)	10.0 mg/ml(10,000 ppm)	> 240
Doxorubicin HCI	2.0 mg/ml(2,000 ppm)	> 240
Etoposide	20.0 mg/ml(20,000 ppm)	> 240
Fluorouracil	50.0 mg/ml(50,000 ppm)	> 240
Methotrexate	25 mg/ml(25,000 ppm)	> 240
Mitomycin C	0.5 mg/ml(500 ppm)	> 240
Paclitaxel	6.0 mg/ml(6,000 ppm)	> 240
Thio Tepa	10.0 mg/ml(10,000 ppm)	45.7
Vincristine Sulfate	1.0 mg/ml(1,000 ppm)	> 240

Please note that the following drugs have low permeation times: Carmustine (BCNU) 3.3 mg/ml 23.7 Minutes; Thio Tepa 10.0 mg/ml 45.7 Minutes.

Caution: Testing showed an average breakthrough time of 45.7 minutes with Thio-Tepa

WARNING: Do not use with Carmustine.

5.0 Device Description

The subject device is single use, disposable gloves intended for medical purposes to be worn on the examiner's hands to prevent contamination between patient and examiner. The gloves are powder-free, ambidextrous with beaded cuff, blue colored, nitrile, and tested for use with chemotherapy drugs. The gloves are offered non-sterile and in five sizes: extra-small, small, medium, large, and extra-large.

6.0 Technological Characteristic Comparison Table

ltom	Subject Device	Predicated Device	Remark	
ltem	(K222733)	(K201390)	Remark	
Product Code	LZA,LZC, OPJ	LZA,LZC	Same	
Regulation No.	21CFR880.6250	21CFR880.6250	Same	
Class	Ι	I	Same	
Intended Use / Indication for Use	A patient examination glove is a disposable device intended for medical purposes that is worn on the examiner's hand to prevent contamination between patient and examiner. These gloves were tested for use with chemotherapy drugs as per ASTM D6978- 05(2019) Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.	A patient examination glove is a disposable device intended for medical purposes that is worn on the examiner's hand to prevent contamination between patient and examiner. These gloves were tested for use with chemotherapy drugs as per ASTM D6978-05(2019) Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.	Same	
Powdered or Powered free	Powdered free	Powdered free	Same	
Design Feature	Ambidextrous	Ambidextrous	Same	
Sterility	Non-Sterile	Non-Sterile	Same	
Labeling Information	Single-use indication, powder free, device color, device name, glove size and quantity, non-Sterile, a statement of standard ASTM D6978-05 compliance and a summary of the testing results.	Single-use indication, powder free, device color, device name, glove size and quantity, non-Sterile, a statement of standard ASTM D6978-05 compliance and a summary of the testing results.	Same	

Table2 Device Dimensions Comparison

Predicate Device(K201390)	Designation	Size					Tolerance
	Designation –	XS	S	М	L	XL	TOIETATICE
	Length, mm	NA	240	240	240	240	min
	Width, mm	NA	85	95	105	115	±10
	Thickness, mm:						

	Finger	0.16					min
	Palm			0.14			min
Subject Device (K222733)	Designation	Size				Talamanaa	
	Designation	XS	S	М	L	XL	Tolerance
	Length, mm	220	220	230	230	230	min
	Width, mm	70	80	95	110	120	±10
	Thickness, mm:						
	Finger	0.05 r			min		
	Palm			0.05			min
Remark	Different						

Analysis: The physical dimensions are different with that of the predicate, but they all meet the requirements of ASTM D6319-19, so the differences do not raise any new safety or performance questions.

Item		Subject device (K222733)	Predicated device (K201390)	Remark			
Colorant			Blue	Light Blue	Different		
	Before	Tensile Strength	14Mpa, min	17Mpa, min	Different		
	Aging	Ultimate Elongation	500% min	500% min	Same		
Physical Properties	After	Tensile Strength	14Mpa, min	14Mpa, min	Same		
Aging	Aging	Ultimate Elongation	400%min	400%min	Same		
Comply with ASTM D6319		319	Comply with ASTM D6319	Same			
		n holes when cordance with AQL=2.5	Be free from holes when tested in accordance with ASTMD5151 AQL=2.5	Same			
Powder Content ASTM D6124		equirements of .<2.0mg	MeettherequirementsofASTM D6124	Same			
Carmustine mg/ml: 23.7 N		(BCNU) 3.3 ⁄linutes	Carmustine (BCNU) 3.3 mg/ml: 25.3 Minutes	Different			
Cisplatin 1.0 Minutes		mg/ml: > 240	Cisplatin 1.0 mg/ml: ≥240 Minutes	Same			

Table3 Performance Comparison

	Cyclophosphamide (Cytoxan) 20.0 mg/ml: > 240 Minutes	Cyclophosphamide (Cytoxan) 20.0 mg/ml: ≥240 Minutes	Same
	Dacarbazine (DTIC) 10.0 mg/ml:> 240 Minutes	Dacarbazine (DTIC) 10.0 mg/ml: ≥240 Minutes	Same
	Doxorubicin HCl 2.0 mg/ml: > 240 Minutes	Doxorubicin Hydrochloride 2.0 mg/ml: ≥240 Minutes	Same
	Etoposide 20.0 mg/ml: > 240 Minutes	Etoposide (Toposar) 20.0 mg/ml: ≥240 Minutes	Same
Chemotherapy Drugs Tested with Minimum Breakthrough Detection Time as Tested per ASTM D 6978	Fluorouracil 50.0 mg/ml: > 240 Minutes	Fluorouracil 50.0 mg/ml: ≥240 Minutes	Same
	Methotrexate 25 mg/ml: > 240 Minutes	Methotrexate 25 mg/ml: ≥240 Minutes	Same
	Mitomycin C 0.5 mg/ml: > 240 Minutes	Mitomycin C 0.5 mg/ml: ≥ 240 Minutes	Same
	Paclitaxel 6.0 mg/ml: >240 Minutes	Paclitaxel (Taxol) 6.0 mg/ml: ≥240 Minutes	Same
	Thio Tepa 10.0 mg/ml: 45.7 Minutes	Thio-Tepa 10.0 mg/ml: 43.7 Minutes	Different
	Vincristine Sulfate 1.0 mg/ml: > 240 Minutes	Vincristine Sulfate (Oncovin) 1.0 mg/ml: ≥240 Minutes	Same

Table4 Safety Comparison

Item		Subject device (K222733)	Predicated device (K201390)	Remark
Material		Nitrile	Nitrile	Same
	Irritation (ISO 10993-10:2010 Biological Evaluation of Medical Devices – Part 10: Tests For	Under the conditions of the study, not an irritant		Same

Biocompatibility	Irritation And Skin Sensitization) Sensitization (ISO 10993-10:2010 Biological Evaluation of Medical Devices – Part 10: Tests For Irritation And Skin Sensitization)	the study, not	-	
	Cytotoxicity (ISO 10993-5:2009 Biological Evaluation of Medical Devices – Part 5: Tests For In Vitro Cytotoxicity)	Under conditions of the study, device extract is not cytotoxic	the study, device	Different
	Acute Systemic Toxicity(ISO 10993- 11:2017,Biological evaluation of medical devices - Part 11: Tests for systemic toxicity.)	N/A	Under conditions of the study, device extract is non-toxic	Different

8.0 Summary of Non-clinical Testing

The biocompatibility evaluation for Disposable Nitrile Medical Examination Glove (Tested for Use with Chemotherapy Drugs) was conducted in accordance 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

Performance Testing (Bench)

Physical performance qualities of the proposed device were evaluated per ASTM D6319-10, *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 chemotherapy drugs*. In addition, the proposed device was tested according to ASTM D6978-05 (Reapproved 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.

In summary, the performance testing of the subject device was conducted to adequately demonstrate the effectiveness of the device in accordance with the relevant test methods cited below:

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

Test Method	Purpose	Acceptance Criteria	Results
		Length(mm):	Length:>230
		XS/S:≥220;	Width:
		M/L/XL: ≥230;	XS: 75-80;
		Width(mm):	S: 85-87
		XS: 70±10;	M: 95-98
		S: 80±10;	L: 105-107
		M: 95±10;	XL: 115-117
	Dhysical	L: 110±10;	
ASTM D6319	Physical Dimensions	XL: 120±10	<u>Pass</u>
ASTM D0319		Thickness (mm):	XS:
	Test	Finger: ≥0.05	Finger: 0.10~0.11
		Palm: ≥0.05	Palm: 0.06~0.10
			S:
			Finger: 0.09~0.12
			Palm: 0.07~0.09
			M:
			Finger: 0.08~0.12
			Palm: 0.07~0.09

Table 5: Summary of Non-clinical Testing Table

ASTM D5151	Watertightness Test for	Meet t ASTM E	the requirer 05151 AQL 2.		S:1/125 leaks
	Detection of Holes				M:0/125 leaks L:2/125 leaks XL:2/125 leaks <u>Pass</u>
ASTM D6124	Powder Content	Meet t ASTM E	the requirer 06124 < 2.0m		XS:0.08 mg; S:0.12mg; M:0.09mg; L:0.10mg; XL:0.11.
		Before Aging	Tensile Strength	≥14MPa	Pass XS:18~21 S:18~25 M:18~26 L:16~24 XL:16~25 Pass
ASTM D412	Physical properties		Ultimate Elongation	≥500%	XS: 520-536 S:518~517 M:515~575 L:529~561 XL:523~578 <u>Pass</u>
		After Aging	Tensile Strength	≥14MPa	XS:15 ~21 S:16~21 M:15~24

ASTM Defendementation Defend			[1
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ASTM D6978 Drugs Tested with D6978 Minimum Breakthrough Detection Time ISO 10993-5 ISO 10993-10 Drugs Dacarbazine (DTIC) 10.0 mg/ml: > 240 Minutes Doxorubicin HCl 2.0 mg/ml: > 240 Minutes Fluorouracil 50.0 mg/ml: > 240 Minutes Methotrexate 25 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.			Cycloph	osphamide	(Cytoxan)	20.0 mg/ml: > 240
ASTM D6978 Tested with D6978 Minimum Breakthrough Detection Time Thio Tepa 10.0 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes		Chemotherapy	Minutes			
D6978 Minimum Etoposide 20.0 mg/ml: > 240 Minutes Breakthrough Fluorouracil 50.0 mg/ml: > 240 Minutes Detection Time Methotrexate 25 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.		Drugs	Dacarba	azine (DTIC)	10.0 mg/m	I:> 240 Minutes
Breakthrough Detection Time Fluorouracil 50.0 mg/ml: > 240 Minutes Methotrexate 25 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.	ASTM	Tested with	Doxorut	bicin HCl 2.0	mg/ml: >	240 Minutes
Detection Time Methotrexate 25 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.	D6978	Minimum	Etoposi	de 20.0 mg/n	nl: > 240	Minutes
Miteriolitexate 2.5 mg/ml: > 240 Minutes Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: > 240 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.		Breakthrough	Fluorou	racil 50.0 mg	/ml: >240	Minutes
Mitomycin C 0.5 mg/ml: > 240 Minutes Paclitaxel 6.0 mg/ml: > 240 Minutes Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.		Detection Time	Methotr	exate 25 mg/	ml: >240	Minutes
Thio Tepa 10.0 mg/ml: 45.7 Minutes Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.						
Vincristine Sulfate 1.0 mg/ml: > 240 Minutes ISO 10993-5 Cytotoxicity Non-cytotoxic Under conditions of the study, did not show potential toxicity to L-929 cells. ISO 10993-10 Irritation Non-irritating Under the conditions of the study, not an irritant.			Paclitax	el 6.0 mg/ml:	> 240 M	linutes
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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, Disposable Nitrile Examination Glove (Tested for Use with Chemotherapy Drugs), is as safe, as effective, and performs as well as or better than the legally marketed predicate device under K201390.