April 2, 2022

NB Medical 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: K220343
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: January 27, 2022
Received: February 7, 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 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, 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

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)*
K220343

Device Name
NITRILE EXAMINATION GLOVES

Indications for Use *(Describe)*
The NITRILE EXAMINATION GLOVES 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.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510(k) Summary

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

1.0 Submitter's Information

Name: NB Medical Co., LTD
Address: Tay An Industrial Cluster, Tien Hai Town Tien Hai district, Thai Binh Province, Vietnam
Phone Number: 86-13615395959
Contact: Kecheng Zhou
Date of Preparation: Jan.30, 2022

Designated Submission Correspondent

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2.0 Device Information

Trade name: NITRILE EXAMINATION GLOVES
Common name: Patient Examination Gloves Classification
Name: Non-powdered patient examination glove Model(s): S, M, L, XL (White/Cobalt Blue/Black/Blue)

3.0 Classification

Production code: LZA
Regulation number: 21CFR880.6250
Classification: Class I
Panel: 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 GLOVES 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 white, cobalt blue, black, blue. It can be available in six specifications: S, M, L, XL. The subject device is non-sterile.

7.0 Technological Characteristic Comparison Table

Table1-General Comparison

Item	Subject Device	Predicated Device (K171422)	Comparison
Product Code	LZA	LZA	Same
Regulation No.	21CFR880.6250	21CFR880.6250	Same
Class	I	I	Same
Intended Use	The NITRILE EXAMINATION GLOVES 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	White/ Cobalt Blue/Black/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: S: ⩾220; M/L/XL: ⩾230； Width:	Length: XS/S/M/L/XL: ⩾230； Width: XS: 87±5;	Different Analysis 2

		S: 80±10; M: 95±10; L: 110±10; XL: 120±10.		S: 85±5; M: 95±5; L: 105±5; XL: 115±5		
Thickness(mm)		Finger: ⩾0.05; Palm: ⩾0.05		Finger: ⩾0.05; Palm: ⩾0.05		Same
Physical Properties	Before Aging	Tensile Strength	14MPa, min	Tensile Strength	14MPa, min	Same
		Ultimate Elongation	500% min	Ultimate Elongation	500% min	Same
	After Aging	Tensile Strength	14MPa, min	Tensile Strength	14MPa, min	Same
		Ultimate Elongation	400%min	Ultimate Elongation	400%min	Same
Freedom from Holes		Be free from holes when tested in accordance with ASTMD5151 AQL=2.5		Be free from holes when tested in accordance with ASTMD5151 AQL=2.5		Same
Powder Content		Meet the requirements of ASTM D6124		Meet the requirements of ASTM D6124		Same
Biocompatibility		ISO 10993-5 Under conditions of the study, device extract is cytotoxic		N.A.		/
		ISO 10993-10; Under the conditions of the study, not an irritant or a sensitizer		ISO 10993-10; Under the conditions of the study, not an irritant or a sensitizer		Same
		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 (White/Cobalt Blue/Black/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 <u>Summary of Non-clinical Testing</u>

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.

Table 2 - Summary of non-clinical performance testing

Test Method	Purpose	Acceptance Criteria	Results
ASTM D6319	Physical Dimensions Test	Length(mm): S: ⩾220; M/L/XL: ⩾230； Width(mm): S: 80±10; M: 95±10; L: 110±10; XL: 120±10.	Length(mm): S: ≥220; M/L/XL: ≥230. Width(mm): White: S: 85-88/Pass M: 96-98/ Pass L: 106-108/ Pass XL:114-117/ Pass Cobalt Blue: S: 83-86/Pass M: 95-99/ Pass L: 105-109/ Pass XL:113-117/ Pass Black: S: 85-87/Pass M: 95-98/ Pass L: 104-107/ Pass

			XL:114-117/ Pass Blue: S: 84-86/Pass M: 96-102/ Pass L: 104-107/ Pass XL:114-116/ Pass
		Thickness (mm): Finger: ≥0.05 Palm: ≥0.05	Thickness (mm): Finger: White: 0.07-0.11/Pass Cobalt Blue: 0.10-0.14/Pass Black: 0.14-0.16/Pass Blue: 0.09-0.11/Pass Palm: White: 0.05-0.07/Pass Cobalt Blue: 0.08-0.10/Pass Black: 0.11-0.13/Pass Blue: 0.07-0.08/Pass
ASTM D5151	Watertightness Test for Detection of Holes	Meet the requirements of ASTM D5151 AQL 2.5	0/125/Pass
ASTM D6124	Powder Content	Meet the requirements of ASTM D6124 < 2.0mg	White: 0.20-0.24mg/Pass; Cobalt Blue: 0.21-0.24mg/Pass; Black: 0.17-0.22mg/Pass; Blue: 0.16-0.19mg/Pass

ASTM D412	Physical properties	Before Aging	Tensile Strength	≥14MPa	White: 19-24MPa Cobalt Blue: 19-26MPa Black: 17-22MPa Blue: 20-24MPa
			Ultimate Elongation	≥500%	White: 500-528% Cobalt Blue: 517-633% Black: 527-642% Blue: 501-598%
		After Aging	Tensile Strength	≥14MPa	White: 14-22MPa Cobalt Blue: 18-24MPa Black: 14-20MPa Blue: 15-23MPa
			Ultimate Elongation	≥400%	White: 400-488% Cobalt Blue: 489-578% Black: 500-598% Blue: 471-561%
ISO 10993-5	Cytotoxicity	toxicity			Under conditions of the study, device extract is cytotoxic.
ISO	Acute Systemic Toxicity	Non- acute systemic			Under conditions of`

10993-11		toxicity	the study, did not show acute systemic toxicity in vivo / Pass
ISO 10993-10	Irritation	Non-irritating	Under the conditions of the study, not an irritant/ Pass
ISO 10993-10	Sensitization	Non-sensitizing	Under conditions of the study, not a sensitizer./ Pass

9.0 Summary of Clinical Testing

Clinical testing is not needed for this device.

10.0 Conclusion

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.