

May 28, 2022

Amazing Rubber Products Pvt Ltd % Manoj Zacharias Consultant Liberty Management Group Ltd. 75 Executive Dr. STE114 Aurora, Illinois 60504

Re: K212584

Trade/Device Name: Blue Nitrile Examination Gloves Powder Free

Regulation Number: 21 CFR 880.6250

Regulation Name: Non-Powdered Patient Examination Glove

Regulatory Class: Class I, reserved

Product Code: LZA Dated: April 28, 2022 Received: May 2, 2022

Dear Manoj Zacharias:

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/efdocs/efpmn/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 <u>Federal Register</u>.

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-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">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

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2023 See PRA Statement below.

K212584	
Device Name	
Blue Nitrile Examination Gloves Powder Free	
Indications for Use (Describe)	
Blue Nitrile Examination Gloves Powder Free is disposable device examiner's hand to prevent contamination between patient and examiner and the prevent contamination between patients and the prevent contamination between patients and the prevent contamination and the prevent contamina	
Type of Use (Select one or both, as applicable)	
	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.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

> Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

510(K) SUMMARY

K212584

As required by: 21CFR§807.92(c)

A. APPLICANTINFORMATION

510(K) Owner's Name	Amazing Rubber Products Pvt. Ltd.	
Address	Plot No 14c, Cochin Special Economic Zone , Kakkanad,	
	Cochin-682 037, Kerala- India	
Phone	9447053062	
Fax		
E-mail	info@amazingglove.com	
Contact Person	Mr. Jayasankar S	
Designation	Executive Director	
Contact Number	9447053062	
Contact Email	info@amazingglove.com	
Date Submitted	12 August 2021	

B. DEVICE IDENTIFICATION

Name of the device	Blue Nitrile Examination Gloves Powder Free
Product proprietary or trade name	Amazing ⁺
Common or usual name	Exam Gloves
Classification name	Patient Examination Gloves
Device Classification	Class-1
Product Code	LZA
Regulation Number	21 CFR 880.6250
Review Panel	General Hospital

C. PREDICATE DEVICE

Predicate Device	JR Engineering & Medical Technologies (M) SDN.BHD.
510(K) Number	K192333
Regulatory Class	I
Product code	LZA

D. DESCRIPTION OF THEDEVICE:

Blue Nitrile Examination Gloves Powder Free are Class I patient examination gloves bearing the product code Nitrile - LZA (21CFR880.6250). The gloves are made from acrylonitrile-butadiene copolymer dispersion. These gloves are blue in color and are powder free.

E. INTENDED USE OF THE DEVICE:

Blue Nitrile Examination Gloves Powder Free is disposable devices intended for medical purpose that are worn on the examiner's hand to prevent contamination between patient and examiner.

F. SUMMARY OF THE TECHNOLOGICAL CHARACTERISTICS OF THE DEVICE COMPARED TO THE PREDICATEDEVICE

Characteristics	tics Standards Device Performance		Comparison	
		Predicate	Subject	
510(K) Number		K192333	K212584	
Name of device		JR MEDIC Blue Nitrile Examination Gloves Powder-free	Blue Nitrile Examination Gloves Powder Free	
Dimensions	ASTM D6319- 2019	Length Min 230 m Width Min 95+/-10 mm(for medium size)	Length Min 230 mm Width Min 95+/-10 mm(for medium size)	Same
Physical Properties	ASTM D6319-2019	Before Aging Tensile Strength min 14 Mpa Ultimate Elongation Min 500% After Aging Tensile Strength min 14 Mpa Ultimate Elongation Min 400%	Before Aging Tensile Strength min 14 Mpa Ultimate Elongation Min 500% After Aging Tensile Strength min 14 Mpa Ultimate Elongation Min 400%	Same
Thickness	ASTM D6319-2019	Palm min 0.05 mm Finger min 0.05 mm	Palm min 0.05 mm Finger min 0.05 mm	Same
Powder Residue	ASTM D6319-2019	≤2 mg/glove	≤2 mg/glove	Similar
	Primary Skin Irritation- ISO 10993- 10:2010(E)	Under the condition of study not an irritant	Under the condition of study not an irritant	Same
Biocompatibility	Dermal Sensitization- ISO 10993-10:2010(E)	Under the conditions of the study not a sensitizer	Under the conditions of the study not a sensitizer	Same
	In vitro cytotoxicity ISO10993-5 :2009(E)	Under the conditions of the study, cytotoxic	Under the conditions of the study cytotoxic	Same
	Acute Systemic Toxicity Test ISO 10993-11:2017(E)	Under the conditions of study the device extracts do not pose a systemic toxicity concern	Under the conditions of study the device extracts do not pose a systemic toxicity concern	Same
	Material Mediated Pyrogenicity ISO 10993-11:2017(E) / USP 41<151>	Under the conditions of the study the device extract did not show a material mediated pyrogenicity response.	Under the conditions of the study the device extract did not show a material mediated pyrogenicity response.	Same

Characteristics	Standards	Device Performance		Comparison
		Predicate	Current	1
Water Tight (1000 ml)	ASTM D5151- 2019	Passes AQL-1.5	Passes AQL-1.5	Similar
Intended use		JR MEDIC Blue Nitrile Examination Gloves Powder-free is disposable devices intended for medical purpose that are won on the examiner's hand to prevent contamination between patient and examiner.	Examination Gloves Powder free is disposable devices intended for medical purpose that are worn on the examiner's hand to prevent contamination between patient and examiner.	Similar
Material	ASTM D6319- 2019	Nitrile	Nitrile	Same
Color	-	Blue	Blue	Same
Texture	-	Finger Texture	Finger texture	Same
Size	ASTM D6319- 2019	Extra Small, Small, Medium, Large, Extra Large	Extra Small, Small, Medium, Large, Extra Large	Same
Single Use	Medical Glove Guidance Manual - Labeling	Single Use	Single Use	Same
Manufacturer(s)	-	JR Engineering & Medical Technologies (M) SDN.BHD. Malaysia.	Amazing Rubber Products Pvt. Ltd.	

NON-CLINICAL TESTING SUMMARY

PERFORMANCE DATA

Test Method	Purpose	Acceptance Criteria	Result
ASTM D6319-2019 Standard Specification for Nitrile Examination Gloves for Medical Application	To determine the length of the gloves	Min 230 mm for all sizes	X-Small:- 303 mm Small:- 304 mm Medium:- 305mm Large:- 306mm X-Large:- 307mm
ASTM D6319-2019 Standard Specification for Nitrile Examination Gloves for Medical Application	To determine the width of the gloves	X-small:- 70+/-10 mm Small:- 80+/-10 mm Medium:- 95+/-10mm Large:- 110+/-10 mm X-Large:- 120+/-10 mm	X-small- 74 mm Small:- 84 mm Medium:- 94 mm Large:- 104 mm X-Large:- 115 mm

Test Method	Purpose	Acceptance	Result
		Criteria	
ASTM D6319-2019 Standard Specification for Nitrile Examination Gloves for Medical Application	To determine the thickness of the gloves		Size Palm Finger X-Small 0.10mm 0.12mm Small 0.10mm 0.12mm Medium 0.10mm 0.12mm Large 0.10mm 0.12mm X-Large 0.10mm 0.12mm
ASTM D6319-2019 Standard Specification for Nitrile	To Determine the physical properties- Tensile strength	Before Ageing Tensile Strength 14Mpa Min for all sizes After Ageing Tensile Strength 14Mpa Min for all sizes	Size Before ageing After ageing X-Small 18.44Mpa 17.49Mpa Small 18.49Mpa 17.53Mpa Medium 18.56Mpa 17.65Mpa Large 18.62Mpa 17.71Mpa X-Large 18.64Mpa 17.76Mpa
Examination Gloves for Medical Application	To Determine the physical properties- Ultimate Elongation	Before Ageing Ultimate Elongation 500% Min for all sizes After Ageing Ultimate Elongation 400% Min for all sizes	Size Before ageing After ageing X-Small 683% 656% Small 687% 660% Medium 692% 663% Large 695% 666% X-Large 698% 669%

Test Method	Purpose	Acceptance Criteria		Result
ASTM D5151-2019 Standard Test Method for Detection of Holes in Medical Gloves	To determine the holes in the gloves	AQL 1.5	Gloves Pass	es AQL 1.5
ASTM D6124-06 (Reapproved 2017) Standard Test Method for Residual Powder on Medical Gloves	To determine the residual powder in the gloves	C	X-small Small Medium Large X-Large	Residual Powder Content 0.21mg/glove 0.21mg/glove 0.22 mg/glove 0.22 mg/glove 0.22 mg/glove

BIO-COMPATIBILITY DATA

Test Method	Purpose	Acceptance Criteria	Result
ISO 10993-10 Biological Evaluation of Medical Devices Test for Irritation and Skin Sensitization. Test done for irritation.	To determine the potential of the material under test to produce dermal irritation in Rabbits	Under the condition of study not an irritant	Under the condition of study not an irritant
ISO 10993-10 Biological Evaluation of Medical Devices Test for Irritation and Skin Sensitization. Test done Skin sensitization.	To determine the skin sensitization potential of the material both in terms of induction and elicitation in Guinea Pig.	Under the conditions of the study not a sensitizer	Under the conditions of the study not a sensitizer
ISO 10993-5:2009 biological evaluation of medical devices - part 5, tests for in vitro cytotoxicity.	To evaluate the in vitro cytotoxic potential of the test item (both inner and outer surface) Extracts in L-929 mouse fibroblasts cells using elution method.	Under the conditions of study non cytotoxic	Under the conditions of the study cytotoxic.
ISO 10993-11:2017 biological evaluation of medical devices - part 11, tests for systemic toxicity.	To determine the acute systemic toxicity potential of the test item extracts (both inside and outer surfaces) in Swiss Albino mice.	Under the conditions of study the device extracts do not pose a systemic toxicity concern	Under the conditions of study the device extracts do not pose a systemic toxicity concern
Material Mediated Pyrogenicity ISO 10993- 11:2017(E) / USP 41<151>	To determine the pyrogenic potential of the test item extract following intravenous injection in New Zealand white Rabbits.	Under the conditions of the study, the device did not demonstrate a material mediated pyrogenicity response.	Under the conditions of the study, the device did not demonstrate a material mediated pyrogenicity response.

G. Clinical Testing Summary

Not applicable - Clinical data is not needed for gloves or for most devices cleared by the 510(K) process.

H. CONCLUSION

The conclusions drawn from the nonclinical test demonstrate that the subject device in 510(K) submission, Blue Nitrile Examination Gloves Powder Free is as safe, as effective, and performs as well as or better than the legally marketed predicate device K192333.