

February 8, 2022

Star Investment And Trade Joint Stock Company % Manoj Zacharias
US Agent
Liberty Management Group Limited
75 Executive Drive, Suite 114
Aurora, Illinois 60504

Re: K213058

Trade/Device Name: O'Star 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: September 8, 2021 Received: September 22, 2021

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/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 <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,

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

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.

C213058			
Device Name			
D'Star Nitrile Examination Gloves Powder Free			
ndications for Use (Describe)			
D'Star Nitrile Examination Gloves Powder Free is a disposable examiner's hand to prevent contamination between patient and			
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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★O'Star

STAR INVESTMENT AND TRADE JOINT STOCK COMPANY

Manufacturer address: Khac Niem Industrial Cluster, Khac Niem Ward, Bac Ninh

City, Bac Ninh Province, Vietnam. Telephone No: +84 22 23 810 962

Email: ostargloves.business@gmail.com

510(k) SUMMARY (K213058)

[AS REQUIRED BY 21CFR807.92]

I. SUBMITTER

510(k) Owner's Name : STAR INVESTMENT AND TRADE JOINT STOCK COMPANY

Address : Khac Niem Industrial Cluster, Khac Niem Ward, Bac Ninh City,

Bac Ninh Province, 16000, Vietnam

Telephone : +84 22 23 810 962

Contact person : DO VAN BINH

Designation : Chairman & General Director

Contact Number : +84 984 990 992

Contact Email : thutrang.tpp2001@gmail.com

Date of Summary Prepared : 05.01.2022

II. DEVICE

Brand Name : O'Star Nitrile Examination Gloves Powder Free

Device Common Name : Nitrile Examination Gloves Powder Free

Device Classification name : Non-powdered patient examination glove

Regulation Number : 21 CFR 880.6250

Class : I

Product Code : LZA

III. PREDICATE DEVICE

Predicate Device Name : Disposable Nitrile Gloves

510(k) Number : K210276

Regulation Number : 21 CFR 880.6250

Class : I

Product Code : LZA



IV. DEVICE DESCRIPTION

O'Star Nitrile Examination Gloves Powder Free is a Class I device bearing the product code LZA (21CFR 880.6250). They meet all the current specifications listed under the ASTM D6319-19, Standard Specification for Nitrile Examination Gloves for Medical Application. They are made from acrylonitrile-butadiene copolymer dispersion. These gloves are blue in color having Finger Texture, Ambidextrous and are powder free. The product is non-sterile.

V. INTENDED USE

O'Star Nitrile Examination Gloves Powder Free is a disposable device intended for medical purpose that is worn on the examiner's hand to prevent contamination between patient and examiner.

VI. COMPARISON OF TECHNOLOGICAL CHARACTERISTICS WITH THE PREDICATE DEVICE

Table 1: General Comparison

SI. No	Features compared	Features compared Proposed Device Predicate Device		Result						
	General Information									
1.	510(k) Number	K213058	K210276	-						
2.	Manufacturer	STAR INVESTMENT AND TRADE JOINT STOCK COMPANY	FUJIAN ERCON MEDICAL MANAGEMENT CO., LTD.	-						
3.	Classification	I	I	Same						
4.	Regulation number	21 CFR 880.6250	21 CFR 880.6250	Same						
5.	Product Code	LZA	LZA	Same						
6.	Indication For Use	O'Star Nitrile Examination Gloves Powder Free is a disposable device intended for medical purpose that is worn on the examiner's hand to prevent contamination between patient and examiner.	Disposable 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.	Same						
7.	Material	Nitrile	Nitrile	Same						
8.	Color	Blue	Blue	Same						
9.	Texture	Finger Texture	Finger Texture	Same						
10.	Ambidextrous	Yes	Yes	Same						
11.	Size	S, M, L, XL	S, M, L, XL	Same						



SI. No	Features compared		Proposed Device	Predicate Device	Result
12.	OTC Use Yes		Yes Yes		Same
13.	Reusability		Single use	Single use	Same
14.	Steril	ity	Non- sterile	Non- sterile	Same
15.	Dimensions		Length=min 230±10 mm Width= min 95±10 mm (For medium size)	Length=min 230±10 mm Width= min 95±10 mm (For medium size)	Same
16.	Thick	ness	Palm min 0.05 mm Finger min 0.05 mm	Palm min 0.05 mm Finger min 0.05 mm	Same
17.	Physical Properties		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
18.	. Detection of Holes		AQL=2.5	AQL=2.5	Same
19.	Powder Free Residue		≤2 mg/glove	≤2 mg/glove	Same
	study	Invitro Cytotoxicity	Under the conditions of the study, cytotoxic to L-929 cells. Additional Testing was performed to determine if this was a systemic toxicity concern	Under the conditions of the study, not cytotoxic.	Different
20.	Biocompatibility Study	Skin Sensitization	Under the conditions of the study, not a sensitizer	Under the conditions of the study, not a sensitizer	Same
	Biocomp	Skin Irritation	Under the condition of study not an irritant	Under the condition of study not an irritant	Same
		Acute Systemic Toxicity	Under the conditions of the study, the device extracts do not pose a systemic toxicity concern	Data not available	-

There are no significant differences between the two products and are identical in terms of intended use, materials, design, manufacturing methods. Both devices meet the ASTM standard D6319-19.



VII. PERFORMANCE DATA

A. Non- Clinical Data

Performance Tests

O'Star Nitrile Examination Gloves Powder Free is subjected to the following performance tests according to the requirements of Guidance for Industry and FDA Staff - Medical Glove Guidance Manual and found to be safe and efficient with respect to its intended use:

- Dimension
- Physical property
- Barrier property tests- Detection of Holes in Medical Gloves
- Powder Free Residue

Table 2: Performance Testing Summary

SI No.	Tests	Prop	osed Devi Data	ce actual	Ac	cceptance	Criteria	Result
1.	<u>Dimension</u>	Size	Length	Width	Size	Length	Width	
	Length, Width and	S	247.2mm	90mm	S		80mm±10	
	Thickness	М	243.8mm	103.7mm	М		95mm±10	
	ASTM D6319-19 /ASTM	L	245.5mm	104.2mm	L	230mm min	110mm±10	
	D412-16/ASTM D3767-	XL	247.2mm	110.2mm	XL		120mm±10	
	03-(Reapproved2020)		Thicknes	S		Thickne	ess	Pass
	Standard Specification	Size	Palm	Finger	Size	Palm	Finger	
	for Nitrile Examination	S	0.055mm	0.052mm	S			
	Gloves for Medical	М	0.052mm	0.053mm	М			
	Application	L	0.053mm	0.053mm	L	0.05 mm min	0.05 mm min	
		XL	0.057mm	0.053mm	XL			
2.	Dharatas I a a a a a a a a	Tensile strength			Tensile strength			
	Physical property	Size	Before Aging	After Aging	Size	Before Aging	After Aging	
	Tensile strength and Ultimate Elongation	S	14.23 Mpa	14.07Mpa	S			
		М	15.85 Mpa	14.09 Mpa	М	14Mpa Min 14Mpa Min for for all sizes all sizes	1 4M Mi- f	
	ASTM D6319-19/ASTM	L	14.92 Mpa	14.13 Mpa	L			
	D573-04 (Reapproved 2019)	XL	15.32 Mpa	14.81 Mpa	XL			Dage
	,	Ultimate Elongation		gation	Ultimate Elongation			Pass
	Standard Specification for Nitrile Examination	Size	Before Aging	After Aging	Size	Before Aging	After Aging	
	Gloves for Medical	S	702%	694%	S	7.99	7.99	
	Application	М	935%	836%	М	500% Min for	400%Min for	
		L	768%	728%	L	all sizes	all sizes	
		XL	756%	730%	XL			



SI No.	Tests	Proposed Device actual Data		Ac	cceptance Criteria	Result
3.	Medical Gloves ASTM D6319-19 /ASTM D5151-19 Standard Test Method for Detection of Holes in Medical Gloves	AQL=2.5		AQL=2.5		Pass
4.	Powder Free Residue ASTM D6124- 06(Reapproved2017) Standard Test Method for Residual Powder on	Size S M	Residual powder content 0.03 mg 0.07 mg 0.01 mg	Size S M	Residual powder content ≤2 Mg/Glove Max	Pass
	Medical Gloves	XL	0.01 mg	XL		

B. Biocompatibility

The materials used in the O'Star Nitrile Examination Gloves Powder Free are biocompatible based on the biocompatibility tests mentioned in the Guidance for Industry and FDA Staff - Medical Glove Guidance Manual:

- Invitro Cytotoxicity
- Skin Sensitization
- Skin Irritation
- Acute Systemic Toxicity

These tests are performed according to ISO 10993-1:2018, Biological Evaluation of Medical Devices - Part 1, Evaluation and Testing within a Risk Management Process.

Table 3: Biocompatibility Test Summary

SI. No	Test Performed	Proposed Device	Acceptance Criteria	Result
1.	Invitro Cytotoxicity	Under the conditions of the study, cytotoxic to L-929 cells. Additional Testing was performed to determine if this was a systemic toxicity concern	Under the conditions of the study, not cytotoxic.	Pass
2.	Skin Sensitization	Under the conditions of the study not a sensitizer	Under the conditions of the study not a sensitizer	Pass



3.	Skin Irritation	Under the condition of study not an irritant	Under the condition of study not an irritant	Pass
4.	Acute Systemic Toxicity	Under the conditions of the study, the device extracts do not pose a systemic toxicity concern.	Under the conditions of the study, the device extracts do not pose a systemic toxicity concern	Pass

C. Clinical Test Data

Clinical study was not conducted as clinical data is not needed for O'Star Nitrile Examination Gloves Powder Free.

VIII. CONCLUSION

The conclusion drawn from the non-clinical tests demonstrate that the subject device, O'star Nitrile Examination Glove Powder Free are as safe, as effective and perform as well as or better than legally marketed predicate device in K210276.