August 23, 2021

Ningbo Jingeao Electronics Inc.
% Boyle Wang
Official Correspondent
Shanghai Truthful Information Technology Co., Ltd.
Room 608, No. 738 Shangcheng Rd., Pudong
Shanghai, Shanghai 200120
China

Re: K202745
Trade/Device Name: Disposable medical face mask
Regulation Number: 21 CFR 878.4040
Regulation Name: Surgical Apparel
Regulatory Class: Class II
Product Code: FXX
Dated: July 26, 2021
Received: July 26, 2021

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,

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

Form Approved: OMB No. 0910-0120
Expiration Date: 06/30/2023
See PRA Statement below.

510(k) Number *(if known)*
K202745

Device Name
Disposable medical face mask

Indications for Use *(Describe)*
The Disposable medical face mask is intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. The face mask is intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non sterile.

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

510k number: K202745
Date: Aug.16, 2021
This summary of 510(k) is being submitted in accordance with 21 CFR 807.92.

1.0 Submitter's information

Name: Ningbo Jingeao Electronics Inc.
Address: No.2 Jinyuan Road, Longshan Industrial zone, Cixi City, Zhejiang Province, 315311, China
Phone Number: 86-18800333393
Fax number: 86-574-63973722
Contact: Ms. Yiyun Yu
Date of Preparation: Sep.10, 2020

Designated Submission Correspondent

Mr. Boyle Wang
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Room 608, No. 738 Shangcheng Rd., Pudong Shanghai, 200120 China
Tel: +86-21-50313932
Email: Info@truthful.com.cn

2.0 Device information

Trade name: Disposable medical face mask
Common name: Disposable medical face mask
Classification name: Mask, Surgical
Model(s): Ear loop, 175×95mm

3.0 Classification

Production code: FXX
Regulation number: 21CFR 878.4040
Classification: Class II
Panel: Surgical apparel

4.0 Predicate device information

Manufacturer: Wuhan Dymex Healthcare Co., Ltd
Device: Surgical Face Mask
510(k) number: K182515

5.0 Indication for Use Statement

The Disposable medical face mask is intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. The face mask is intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non sterile.

6.0 Device description

The disposable medical face mask is single use, three-layer, flat-pleated style with ear loops and nose piece. The mask is manufactured with three layers, the inner and outer layers are made of nonwoven fabrics, and the middle layer is made of melt blown fabrics. The ear loops are held in place over the users' mouth and nose by two elastic ear loops welded to the facemask. The elastic ear loops are not made with natural rubber latex. The nose piece in the layers of facemask is to allow the user to fit the facemask around their nose, which is made of galvanized iron wire. The disposable medical face mask will be provided in blue. The masks are sold non-sterile and are intended to be single use, disposable devices.

7.0 Technological Characteristic Comparison Table

Table 3 - General Comparison

Item	Proposed device	Predicated device	Comparison
Product Code	FXX	FXX	Same
Regulation No.	21 CFR 878.4040	21 CFR 878.4040	Same
Class	II	II	Same
Product name	Disposable medical face mask	Surgical Face Mask	-
510(k) No.	K202745	K182515	-
Models	Ear loop, 175×95mm	Ear loop	-
Intended Use	The Disposable medical face mask is intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. The face mask is intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non-sterile.	The Surgical Face Masks are intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. These face masks are intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non-sterile.	* Gap 1
OTC use	Yes	Yes	Same
Composite	Flat Pleated, 3 layers	Flat Pleated, 3 layers	Same

Material	Internal layer	Spun-bond polypropylene	Spun-bond polypropylene	Similar
	Middle layer	Melt blown polypropylene	Melt blown polypropylene	Similar
	External layer	Spun-bond polypropylene	Spun-bond polypropylene	Similar
	Nose piece	Galvanized iron wire	Malleable polyethylene wire	* Gap 2
	Ear loop	Polyester, spandex	spandex	* Gap 3
Color		Blue	Yellow	* Gap 4
Dimension (Length)		17.5cm±0.5cm	17.5cm±0.2cm	* Gap 5
Dimension (Width)		9.5cm±0.5cm	9.5cm±0.2cm	* Gap 6
Sterility		Non-Sterile	Non-Sterile	Same
Single Use		Yes	Yes	Same
Sterile		No	No	Same
ASTM F2100 Level		Level 2	Level 2	Same

* Gap analysis:

Gap 1: the proposed has sharper intended use than the predicate device, because the indication of the proposed device is within the scope of predicate device.

Gap 2-4: the two devices have some difference in materials and product color, product materials safety is proved by its biocompatibility.

Gap 5-6: the two devices share same dimensions however the tolerance is different.

8.0 Non-Clinical Test Conclusion

The proposed device was tested with three nonconsecutive lots (each lot had 32 samples for a total of 96 samples tested) and conformed to the related recognized standards and the requirements stated in the Guidance for Industry and FDA Staff: Surgical Masks – Premarket Notification [510(k)] Submission issued on March 5, 2004.

Table 1 - Performance Testing

Items	Purpose	Acceptance Criteria (Level 2, ASTM F2100-19)	Result
Bacterial filtration efficiency (BFE) (%)	The purpose of the test was to evaluate Bacterial filtration efficiency (BFE) (%)	≥98	Pass
Differential pressure (mmH_2O/cm^2)	The purpose of the test was to evaluate Differential pressure (mmH_2O/cm^2)	<6.0 mmH_2O/cm^2	Pass
Sub-micron particulate filtration efficiency at 0.1 micron, % (PFE)	The purpose of the test was to evaluate Sub-micron particulate filtration efficiency at 0.1	≥98	Pass

	micron, % (PFE)		
Resistance to penetration by synthetic blood, Minimum pressure in mmHg for pass result	The purpose of the test was to evaluate Resistance to penetration by synthetic blood, Minimum pressure in mmHg for pass result	29 of 32 test articles passed at 120mmHg	Pass
Flame spread		Class 1	Pass

Table 2 - Biocompatibility Testing

Item	Proposed Device	Result
Cytotoxicity	Under the conditions of the study, the device is noncytotoxic.	Pass
Irritation	Under the conditions of the study, the device is nonirritating.	Pass
Sensitization	Under the conditions of the study, the device is nonsensitizing	Pass

9.0 Clinical Test Conclusion

No clinical study implemented for the Surgical mask.

10.0 Conclusion

The conclusion drawn from the nonclinical tests demonstrates that the subject device in 510(K) submission K202745, the Disposable medical face mask is as safe, as effective, and performs as well as or better than the legally marketed predicate device cleared under K182515.