Manufacturer: Guangzhou Huashan Biotechnology Co., Ltd. Model Tested: GF-Mask KN95 Mask Date Tested: April 30, 2020

These findings pertain to the Guangzhou Huashan Biotechnology Co., Ltd., GF-Mask KN95 Mask. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator).

Ten respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found <u>here</u>.

No certificate of approval was provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency observed was 74.90% and 27.10%, respectively. All ten respirators measured less than 95%.

While the above-listed product classification has similar performance requirements to NIOSH-approved devices, NIOSH does not have knowledge about the sustained manufacturer quality system and product quality control for these products. NIOSH also does not have knowledge about the product's handling and exposures after leaving its manufacturer's control.

In addition, this product is an ear loop design. Currently, there are no NIOSH-approved products with ear loops; NIOSH-approved N95s have head bands. Furthermore, limited assessment of ear loop designs indicate difficulty achieving a proper fit. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process. This assessment was developed as an assessment of the filter efficiency for those respirator's represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation.

These results will be used to update the CDC guidance for <u>Crisis Capacity Strategies (during known</u> <u>shortages)</u>.

# **Evaluation of International Respirators**

Test: Modified TEB-APR-STP-0059

Date Tested: April 30, 2020

Report Prepared: May 4, 2020

Manufacturer: Guangzhou Huashan Biotechnology Co., Ltd.

Item Tested: GF-Mask KN95 Mask

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	7.7	25.1	25.1	74.90
2	85	4.6	68.5	70.5	29.50
3	85	2.0	28.2	29.7	70.30
4	85	5.9	56.1	57.2	42.80
5	85	6.3	57.4	57.7	42.30
6	85	5.3	72.6	72.6	27.40
7	85	4.8	72.1	72.9	27.10
8	85	4.8	69.5	70.5	29.50
9	85	7.0	31.2	31.2	68.80
10	85	4.7	69.5	70.5	29.50
N	linimum Filter Effic	iency: 27.10	Maximum Filter Efficiency: 74.90		

- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested to STP-0059.
- Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no control over suppliers and distributors of respirators certified by other national or international parties.
- This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark.
- This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future approval through the NIOSH respirator approval program.



Pictures have been added to the end of this report.





#### Instruction

[Name] Dispeable protective mask

[Standards] @2626-2006

[Scope of application] This product is used for general protection, impedance bacteria, pollen, dust, spray, etc [Precautions]

1. To keepthe mask clean, avoid touching the inside of the mask with your hands.

2. When you feel the breathing resistance increases significantly, or when the mask becomes dirty or damaged, you should replace the mask as soon as possible.

3. This mak cannot be washed. Water washing will destroy the filter material structure, cause penetration, and damage the filtering performance of the electrostatic filter material.

4. Masks cannot be disinfected in a microwave oven.

[Wearing method]

1. Stretching expanded the mask

2.Ear rope hooks on ears.

3.Gently press the nose cartilage Article.

4.Until completely covering the chin

[Storage Conditions] It should be stored in a dry, ventiLated, non-corrosive gas environment, awayfrom five sources and flammable materials.

oduction da

[Transportation conditions] Avoid heavy pressure, direct sunlight and humidity during transportation. [Production Date] As indicated on the package [VaLidity] Threeyears

## GUANGZHOU HUASHAN BIOTECHNOLOGY CO., LTD. Add: No.25 Furong Xinhua Road, Shiling town, Huadu

District, Guangzhou, China

Note: The actual production location is based on the letter code after Made











