Manufacturer: Guangdong Zhizhen Biological Medicine Co., Ltd. Model Tested: KN95 Three-Dimensional Protective Face Mask Date Tested: June 19, 2020

These findings pertain to the Guangdong Zhizhen Biological Medicine Co., Ltd., KN95 Three-Dimensional Protective Face 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).

Thirty respirators were submitted for evaluation. The respirators were sampled into groups of ten 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 was 99.94% and 99.49%, respectively. All thirty respirators measured more 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: June 19, 2020

Report Prepared: June 19, 2020

Manufacturer: Guangdong Zhizhen Biological Medicine Co., Ltd.

Item Tested: KN95 Three-Dimensional Protective Face Mask (Sample Group 1 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
1	85	24.1	0.07	0.07	99.93
2	85	20.7	0.13	0.13	99.87
3	85	19.1	0.07	0.07	99.93
4	85	21.7	0.23	0.23	99.77
5	85	23.8	0.23	0.23	99.77
6	85	21.5	0.12	0.12	99.88
7	85	21.2	0.27	0.27	99.73
8	85	18.8	0.51	0.51	99.49
9	85	29.1	0.06	0.06	99.94
10	85	25.0	0.17	0.17	99.83
Minimum Filter Efficiency: 99.49			Maximum Filter Efficiency: 99.94		

- 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.

NATIONAL Personal Protective Technology Laboratory

Pictures have been added to the end of this report.

Test: Modified TEB-APR-STP-0059

Date Tested: June 19, 2020

Report Prepared: June 19, 2020

Manufacturer: Guangdong Zhizhen Biological Medicine Co., Ltd.

Item Tested: KN95 Three-Dimensional Protective Face Mask (Sample Group 2 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency	
11	85	18.7	0.17	0.17	99.83	
12	85	19.0	0.17	0.17	99.83	
13	85	19.9	0.20	0.20	99.80	
14	85	25.9	0.22	0.22	99.78	
15	85	26.0	0.15	0.15	99.85	
16	85	20.0	0.35	0.35	99.65	
17	85	19.9	0.24	0.24	99.76	
18	85	24.3	0.13	0.13	99.87	
19	85	17.5	0.30	0.30	99.70	
20	85	21.8	0.37	0.37	99.63	
	Minimum Filter Efficiency: 99.63			Maximum Filter Efficiency: 99.87		

- 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.

Test: Modified TEB-APR-STP-0059

Date Tested: June 19, 2020

Report Prepared: June 19, 2020

Manufacturer: Guangdong Zhizhen Biological Medicine Co., Ltd.

Item Tested: KN95 Three-Dimensional Protective Face Mask (Sample Group 3 of 3)

Country of Certification: China (GB2626-2006)

Filter	Flow Rate (Lpm)	Initial Filter Resistance (mmH ₂ O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency
21	85	18.5	0.18	0.18	99.82
22	85	18.8	0.12	0.12	99.88
23	85	22.9	0.36	0.36	99.64
24	85	22.4	0.22	0.22	99.78
25	85	34.2	0.09	0.09	99.91
26	85	21.9	0.09	0.09	99.91
27	85	20.9	0.22	0.22	99.78
28	85	26.0	0.16	0.16	99.84
29	85	31.4	0.09	0.09	99.91
30	85	19.4	0.14	0.14	99.86
	Minimum Filter Efficiency: 99.64		Maximum Filter Efficiency: 99.91		

- 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.







KN95 THREE-DIMENSIONAL PROTECTIVE FACE MASK(DISPOSABLE FACE MASK)

Main materials: 75% non-woven cloth, 25% melt-blown cloth.

Function: adopting KN95 grade anti-particulate technology and environmental protection fabric, effectively protect from air pollution and particles such as droplets. 3D curvilinear design, comfortable and stable fit, ensure a large space to breathe.

Scope of application: suitable for protection against harmful particles such as dust, haze, droplets and so on.

Note: \diamond This face mask is maintenance-free. Do not wash it. Do not use a microwave oven to heat it. When the face mask is seriously dirty, damaged, or you feel the breathing resistance increases significantly, please replace the face mask in time. \diamond To ensure that the face mask is clean and hygienic, avoid touching the inside of the face mask with your hands and wash your hands before wearing the face mask each time.

Recommended storage conditions: unopened products are stored in a temperature range of -20°C to 30°C and a relative humidity of less than 80%.

How to wear:

1. Hold the face mask in hand, make the fingertip located in the nose clip, let the earband fall naturally.

2. Put the face mask over the face and make sure that the nose strip of the face mask is close to the nose to ensure tightness.

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3. Pull the earband behind the ear.

4. Use two hands to adjust the nose strip to ensure tightness.

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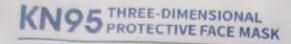
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Wearing test:

OUse your hands to cover the face mask and exhale, if you feel gas leaking from nose location, tighten the nose clip. OIf air leaks from the edge, readjust the earband to ensure tightness.

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CONVENTIONAL TYPE DISPOSABLE FACE MASK

Main materials: 75% non-woven cloth, 25% melt-blown cloth,

Function: adopting KN95 grade anti-particulate technology and environmental protection fabric, effectively protect from air pollution and particles such as droplets. 3D curvilinear design, comfortable and stable fit, ensure a large space to breathe.

Scope of application: suitable for protection against harmful particles such as dust, haze, droplets and so on.

How to wear:

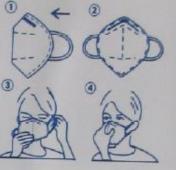
1. Hold the face mask in hand, make the fingertip located in the nose clip, let the earband fall naturally.

2. Put the face mask over the face and make sure that the nose strip of the face mask is close to the nose to ensure tightness.

3. Pull the earband behind the ear.

Use two hands to adjust the nose strip to ensure tightness.

Wearing test:



OUse your hands to cover the face mask and exhale, if you feel gas leaking from nose location, tighten the nose clip.

OIf air leaks from the edge, readjust the earband to ensure tightness.

Note:

◇ This face mask is maintenance-free. Do not wash it. Do not use a microwave oven to heat it. When the face mask is seriously dirty, damaged, or you feel the breathing resistance increases significantly, please replace the face mask in time.

○To ensure that the face mask is clean and hygienic, avoid touching the inside of the face mask with your hands and wash your hands before wearing the face mask each time.

Recommended storage conditions: unopened products are stored in a temperature range of -20°C to 30°C and a relative humidity of less than 80%.

Note: the wearer must read and understand these instructions before using. Please save these instructions for reference.

Manufacturer: Guangdong ZhiZhen Biological Medicine Co., Ltd. Address: No. 5 South Street, Datian First Team, Minzhu Village, Tanbu Town, Huadu District, Guangzhou Implementation standard: GB 2626-2006 KN95 Hygienic standard: GB 15979-2002 Production date: see packaging label Shelf life: 3 years (unopened) Place of origin: Guangzhou, Guangdong, China Postcode: 510820 Phone: +8620-37713902 Web: http://www.drmfyan.cn Email: 2416659392@qq.com Counterfeit supervising hotline: +8620-86881130, Guangdong Abner Law Firm 6







