### NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Shenzhen ZR Alvarza Health Care Ltd.

Model Tested: OTB00094 Date Tested: April 8, 2021

These findings pertain to the Shenzhen ZR Alvarza Health Care Ltd., model OTB00094. The packaging for this product indicates that it meets GB2626-2019 (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 here.

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 99.90% and 98.20%, respectively. All ten respirators measured more than 95% filter efficiency.

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 respirators 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 shortages)</u>.

### **Evaluation of International Respirators**



Pictures have been added to the

end of this report.

**Test:** Modified TEB-APR-STP-0059

Date Tested: April 8, 2021

Report Prepared: April 12, 2021

Manufacturer: Shenzhen ZR Alvarza Health Care Ltd.

Item Tested: OTB00094

Country of Certification: China (GB2626-2019)

Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH₂O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	15.9	0.74	0.74	99.26
2	85	24.5	0.50	0.50	99.50
3	85	30.3	0.10	0.10	99.90
4	85	19.4	0.54	0.54	99.46
5	85	20.2	0.68	0.68	99.32
6	85	23.1	0.74	0.74	99.26
7	85	18.2	0.66	0.66	99.34
8	85	16.9	1.80	1.80	98.20
9	85	20.1	0.62	0.62	99.38
10	85	21.9	0.62	0.62	99.38
P	Minimum Filter Effi	ciency: 98.20%	Maximum Filter Efficiency: 99.90%		

- 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.



## KN95 Particulate Respirator

#### **Wearing Instructions:**

- 1. Wash your hands before operating and wearing the mask.
- 2. Unfold and expand the mask. Position the mask with metalic strip facing upwards.
- 3. Wrap the elastic bands around yours ears to properly keep the mask on tightly.
- 4. Adjust the mask to cover your nose, mouth, and chin.
- 5. Press down on the metallic strip and form it across the bridge of your nose.

Execution Standard	GB2626-2019		
Outer Layer Material	Nonwoven Fabric		
Filter Layer Material	Nonwoven Melt-Blown Fabric		

#### Manufactured for and Distributed by

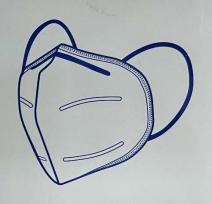
Endliss Innovation Inc.

30773 Wiegman Rd, Hayward, CA 94544, United States www.endlisscare.com

#### Produced by:

Shenzhen ZR Alvarza Health Care Ltd. 201, 2nd Floor, No.8 Building Xifangcun Industrial Zone Songgang, Baoan Area, Shenzhen, Guangdong, China Batch Number: 20210110 Production Date: 2021/01/10 Product Lifespan: 2 Years

Made in China



Model Number: OTB00094 ZR Part Number: KN2003S



CandyCare KN95 Protective Masks Respirator BLK - 20PK New OTB00094\_V1





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