



# Certificate of Verification PPE Test Report

**Report No.** : NPS020030356-CE  
**Applicant** : WENZHOU LUNDINUO GARMENT CO.,LTD  
**Address** : 98th, cidong road dongzhuang industrial zone, Nanbaixiang Ou hai Zone  
Wenzhou, Zhejiang Province, China  
**Manufacturer** : WENZHOU LUNDINUO GARMENT CO.,LTD  
**Address** : 98th, cidong road dongzhuang industrial zone, Nanbaixiang Ou hai Zone  
Wenzhou, Zhejiang Province, China

## Equipment Under Test (EUT)

**Trade Name** : Lundinuo  
**Product Name** : DISPOSABLE MASK  
**Model No.** : LDN95  
**PPE Directive** : Class I  
**Standards** : EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking  
**Classifications** : FFP2  
**Date of Receipt** : March 20, 2020  
**Date of Test** : March 20, 2020 to April 1, 2020  
**Date of Issue** : April 1, 2020  
**Test Results** : PASS



Reviewed by:  
Jerry Chou  
(Chief Engineer)

Prepared By:

**NPS Laboratory Company Limited**

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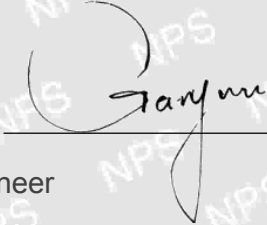
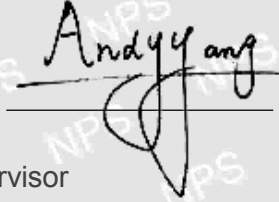
The sample detailed above has been tested to the requirements of Council Personal Protective Equipment (PPE) Directive (EU)2016/425. The test results have been reviewed against the Directives above and found to meet their essential requirements.

## TEST REPORT

### ITEMS FOR ATTENTION:

1. This report is submitted for the exclusive use of the client to whom it is addressed.
2. It would be invalid test report without specific stamp for test institute or the authority.
3. It would be invalid duplicated report without specific stamp for test institute or the authority.
4. It would be invalid test report without all the signatures of reporter, reviewer.
5. It would be invalid test report, if there is any scrawl in the test report without official authorization.
6. Any disputes about the report must be submitted for test laboratory 15 days from the day when the report is received, otherwise that would be invalid out of expiry.
7. Generally, the responsible is only for the samples in entrusted test.

## TEST REPORT

<b>Product Detail</b>	Trade Name	Lundinuo
	Product Name	DISPOSABLE MASK
	Model	LDN95
<b>Test Content</b>	Test Items	CE Machinery Personal Protective Equipment (PPE) Directive (EU)2016/425
	Test Requested	EN 149:2001+A1:2009
	Test Method	Tests for compliance with the EN 149、EN 132、EN 134、EN 143、EN 13274-7、ISO 6941
	Classifications	FFP2
	Test Result	Pass
	Conclusion	The submitted samples complied with the requirement of above Standards.
<b>Test Laboratory</b>	Laboratory Name	NPS Test Laboratory DongGuan
	Address	NPS building, No.160,GuanChang Road, ChangAn Town, DongGuan City, GuangDong Province, China 523855
<b>Remark</b>	<p>1) When determining for test conclusion, measurement uncertainty of tests has been considered.</p> <p>2) This report shall not be reproduced except in full without the written approval of the testing laboratory.</p>	
<p>Tested by:  Gory Wu Engineer April 1, 2020</p> <p>Reviewed by:  Andy Yang Supervisor April 1, 2020</p>		

## TEST REPORT

### Requirements

#### 7.1 General

#### 7.2 Nominal values and tolerances

#### 7.3 Visual inspection

Requirement	Packaging specification (CE mark, en149 standard, manufacturer, production date, description, etc.)
Result - Remark	See the attached product packaging drawing Meet the NPS standard requirements
Conclusion	Meet the inspection requirements

#### 7.4 Packaging

Dimensions	Cup-shaped
Weight	1 Pcs 5.59g ,10 Pcs 54.41g
Boxing	50 Pcs / Box
Result - Remark	See the attached product packaging drawing
Conclusion	Meet the inspection requirements

#### 7.5 Material

Ear Wire	Facial auricular
Bridge of nose	Plastic-clad steel wire
Color	Inner Layer White,Outer Layer White
Face cloth	1 And 3 Non Woven Fabric , 2 Medical use melt-blown nonwovens
Conclusion	Meet the inspection requirements

## TEST REPORT

### 7.6 Cleaning and disinfecting

Requirement	Functional description of the product
Result - Remark	Particulate Respirator
Conclusion	Meet the inspection requirements

### 7.7 Practical performance

Requirement	Functional description of mask type
Result - Remark	General purpose respirator
Conclusion	Meet the inspection requirements

### 7.8 Finish of parts

Requirement	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.
Result - Remark	No parts, no sharp objects, no BURR, etc.
Conclusion	Meet the inspection requirements

## TEST REPORT

### 7.9 Leakage

#### Strength of attachment of exhalation valve housing

Air Valve Test	
Test Standard	EN 132, EN 134, EN 143, EN 13274-7
Test Item	Air Valve Device
Test Results	N/A (Flat mask not in use)

### 7.10 Compatibility with skin

Requirement	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.
Result - Remark	Particulate Respirator, N/A
Conclusion	Meet the inspection requirements

### 7.11 Flammability

Test Standard	ISO 6941:2003
Test Item	Vertical Burning Test
Test Processing	least 24 h at T: $20 \pm 2^\circ\text{C}$ , $65 \pm 5\%$
Conclusion	Meet the inspection requirements
Test Results	Pass

# TEST REPORT

## 7.12 Carbon dioxide content of the inhalation air

Test Item	Unit	RL (ppm)	Results
carbon dioxide content	ppm	5	N.D
Test Results	Pass		
<p><b>Remarks :</b></p> <ol style="list-style-type: none"> <li>1 ppm = 1mg/kg = 0.0001%.</li> <li>2. N.D.= Not Detected(less than report limit).</li> <li>3. RL= Report Limit.</li> <li>4. The results shown in this test report refer only to the sample tested.</li> </ol>			

## 7.13 Head harness

Requirement	The mask strap should be cut off easily. The breaking strength of the joint of each mask band and mask band should be greater than 10N.
Results	It's easy to take the mask off Breaking strength $\geq 10N$
Conclusion	Meet the inspection requirements
Judgment	Pass

## 7.14 Field of vision

Requirement	Wearing a mask does not affect vision
Result - Remark	Wide field of vision without blocking the line of sight
Conclusion	Meet the inspection requirements
Judgment	Pass

## TEST REPORT

### 7.15 Exhalation valve(s)

Test Item	Classifications	Requirements	Test Results
Penetration %(PFE)	FFP2	< 6	Pass
filter material %(PFE)	FFP2	< 6	Pass

Note:N/A

### Classification Account for

Classification	<span style="border: 1px solid black; padding: 2px;">A<sub>1</sub></span> <b>Maximum penetration of test aerosol</b> <span style="border: 1px solid black; padding: 2px;">A<sub>1</sub></span>	
	Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.
FFP1	20	20
FFP2	6	6
FFP3	1	1



## TEST REPORT

### 7.16 Breathing Resistance

Test Item	Unit	Requirements	Results
Exhalation Resistance	Pa/cm <sup>2</sup>	Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.	Pass

### 7.17 Clogging

Test Item	Unit	Requirements	Test Results
Breathing resistance	Pa/cm <sup>2</sup>	Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.	Pass
<b>Note:</b> N/A			

### Breathing resistance Account for

Classification	Maximum permitted resistance (mbar)		
	inhalation		exhalation
	30 l/min	95 l/min	160 l/min
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

## TEST REPORT

### 7.18 Demountable parts

Requirement	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.
Mask Type	Disposable face mask
Conclusion	All components meet the requirements of section 7.18
Visual inspection	Pass

### Nose Clip Test

Test Item	Nose Clip
Requirement	There should be a nose clip on the mask. The nose clip can be made of plastic material. Length of nose clip $\geq 8.0\text{cm}$
Results	The mask is equipped with a nose clip made of a plastic material. Length of nose clip: 8.2cm
Result - Remark	Disposable general purpose respirator
Judgment	Pass

## TEST REPORT

### Product Photograph



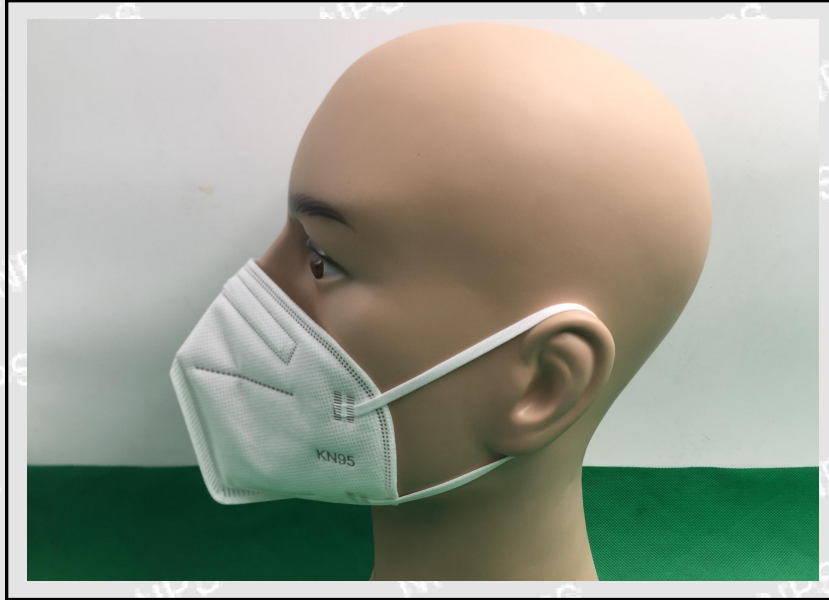
Test Sample Fig 1



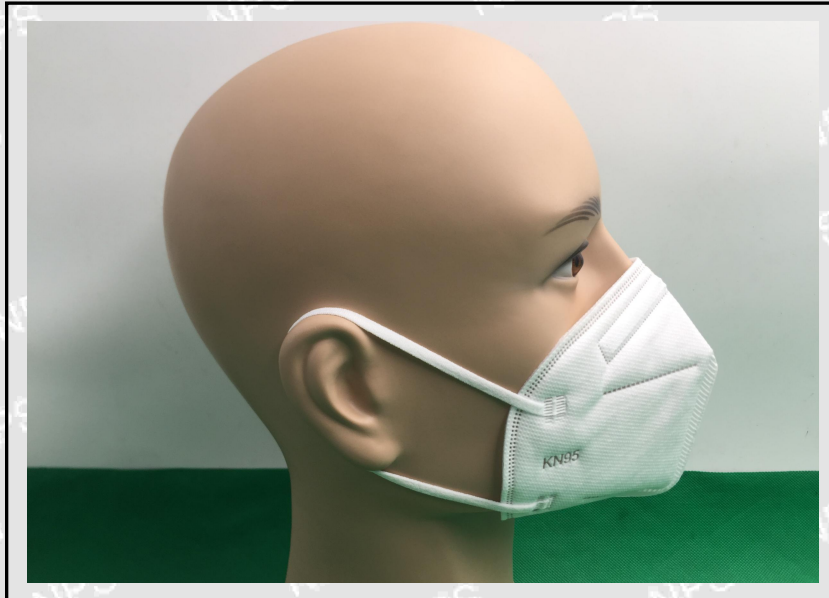
Test Sample Fig 2

## TEST REPORT

### Product Photograph



**Test Sample Fig 3**



**Test Sample Fig 4**

## TEST REPORT

### Product Photograph

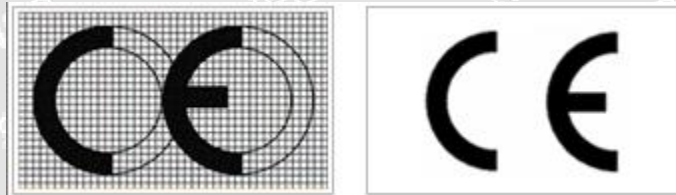


Test Sample Fig 5

## CE Label

1. The CE conformity marking must consist of the initials 'CE' taking the following form:  
If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly and indelibly. It must have the same height as the initials 'CE' Proposed Label Location on EUT

EUT Bottom View/proposed CE Mark Location



NPS.GS

\*\*\*End of Report\*\*\*