



# PPE TEST REPORT

**Report No.** : NPS020030053-CE  
**Applicant** : WENZHOU LUNDINUO GARMENT CO.,LTD  
**Address** : Number B Building,Lin yuan Industry area,Huarong road,Da langstreet,  
Long Hua,Shenzhen,Guangdong,China.  
**Manufacturer** : WENZHOU LUNDINUO GARMENT CO.,LTD  
**Address** : Number B Building,Lin yuan Industry area,Huarong road,Dalangstreet,  
Long Hua,Shenzhen,Guangdong,China.

## Equipment Under Test (EUT)

**Trade Name** : Lundinuo  
**Product Name** : DISPOSABLE MASK  
**Model No.** : Ear-hanging  
**Medical Devices** : 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** : February 27, 2020  
**Date of Test** : February 27, 2020 to March 9, 2020  
**Date of Issue** : March 9, 2020  
**Test Results** : PASS



Reviewed by:  
Jerry Chou  
(Chief Engineer)

Prepared By:

**NPS Laboratory Company Limited**

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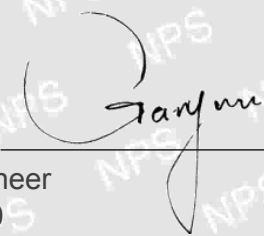
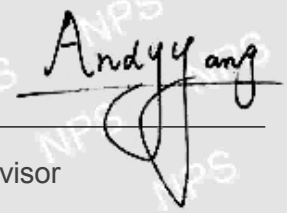
The sample detailed above has been tested to the requirements of Council Personal Protective Equipment (PPE) Directive (EU)2016/425. The test results have been reviewed against the Directives above and found to meet their essential requirements.

## 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	DISPOSABLEL MASK
	Model	Ear-hanging
<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 DongGuang
	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 March 9, 2020</p> <p>Reviewed by:  Andy Yang Supervisor March 9, 2020</p>		

## TEST REPORT

### General

<b>Barrier Test</b>	
Color	White
Dimensions	175*95mm
Weight	1 Pcs = 2.6g , 10 Pcs = 26.04g
Visual inspection	Pass
<b>Note:</b> No	

### Visual inspection

<b>Materials Test</b>	
Ear Wire	Spandex
Bridge of nose	Medical use2
Face cloth	1+3 Non Woven Fabric , 2 Medical use melt-blown nonwovens
<b>Note:</b> No	

# TEST REPORT

## Flammability

<b>Barrier Test</b>	
Test Standard	ISO 6941:2003
Test Item	Vertical Burning Test
Test Processing	least 24 h at T: 20±2°C, 65±5%
Test Results	Pass
<b>Note:No</b>	

## Carbon dioxide content of the inhalation air

Test Item	Unit	RL (ppm)	Results
carbon dioxide content	ppm	5	N.D
Test Results	Pass		
<b>Remarks :</b>			
1. 1ppm = 1mg/kg = 0.0001%. 2. N.D.= Not Detected(less than report limit). 3. RL= Report Limit. 4. The results shown in this test report refer only to the sample tested.			

# TEST REPORT

## 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)
<b>Note:No</b>	

## Breathing Resistance

Test Item	Unit	Requirements	Results		
			1#	2#	3#
<b>Exhalation Resistance</b>	Pa/cm <sup>2</sup>	Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.	26	27	25
Test Results	Pass				
<b>Note:No</b>					

## TEST REPORT

### Clogging

Test Item	Classifications	Requirements	Results		
			1#	2#	3#
Penetration %(BFE)	FFP2	≥95	99.5	99.0	99.5
Test Results	Pass				

**Note:** Test conditions

Coulter counter		Sedimentation analysis	
Size (equivalent spherical diameter)	% Number particles oversize	Size (Stokes diameter)	% weight oversize
μm		μm	
0,7	100	1	99,5
1	80	2	97,5
2	30	3	95
3	17	5	85
5	7	8	70
		10	50
9	2	12	26
		14	10
12	1	18	1

## TEST REPORT

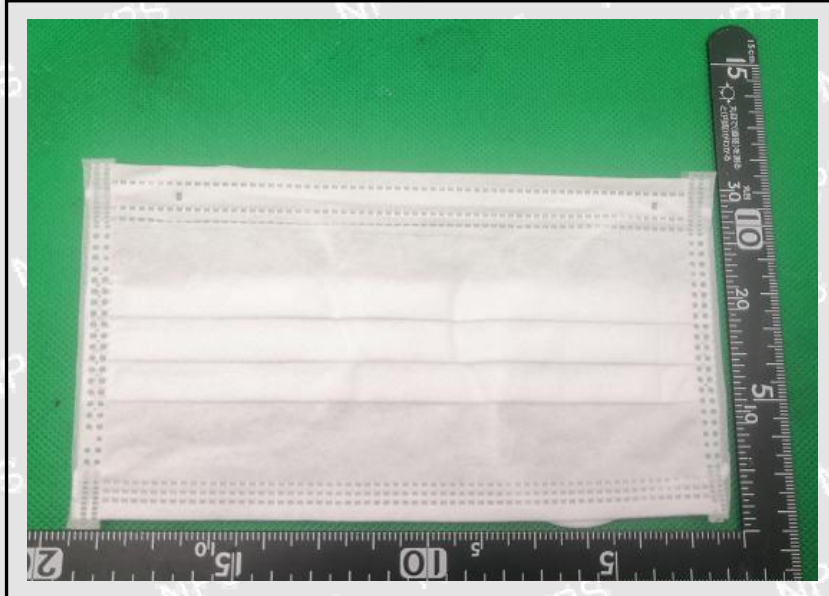
### Penetration of filter material

<b>Headband Test</b>	
Test Standard	EN 149
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 $\geq 10N$
Judgment	Pass
<b>Note:</b> No	

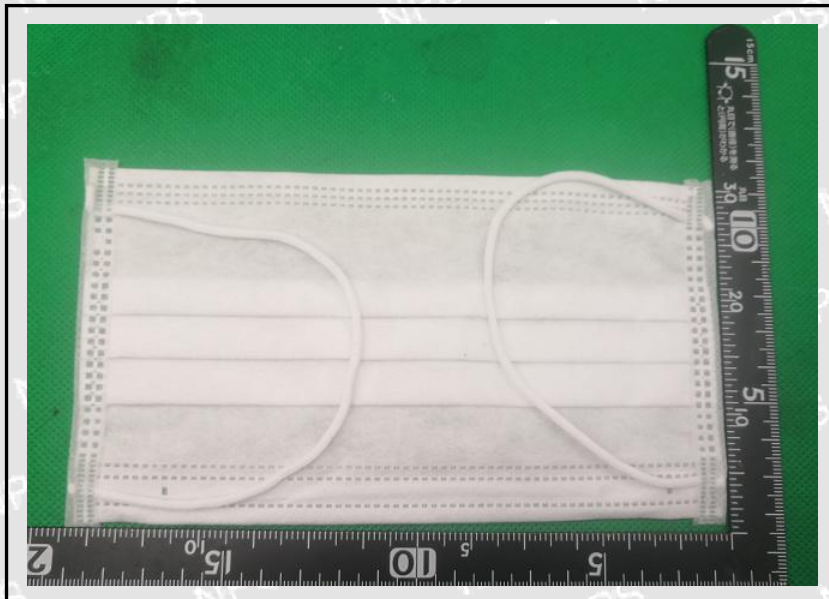
<b>Air Va0121Ive Test</b>	
Test Standard	EN 132、EN 134、EN 143、EN 13274-7
Test Item	Air Valve Device
Test Results	N/A (Flat mask not in use)
<b>Note:</b> No	



## Product Photograph

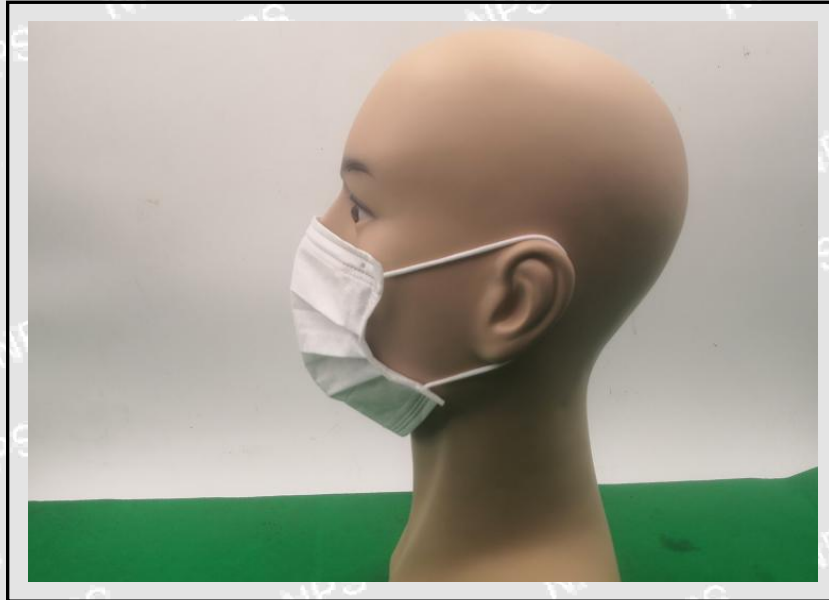


Test Sample Fig 1

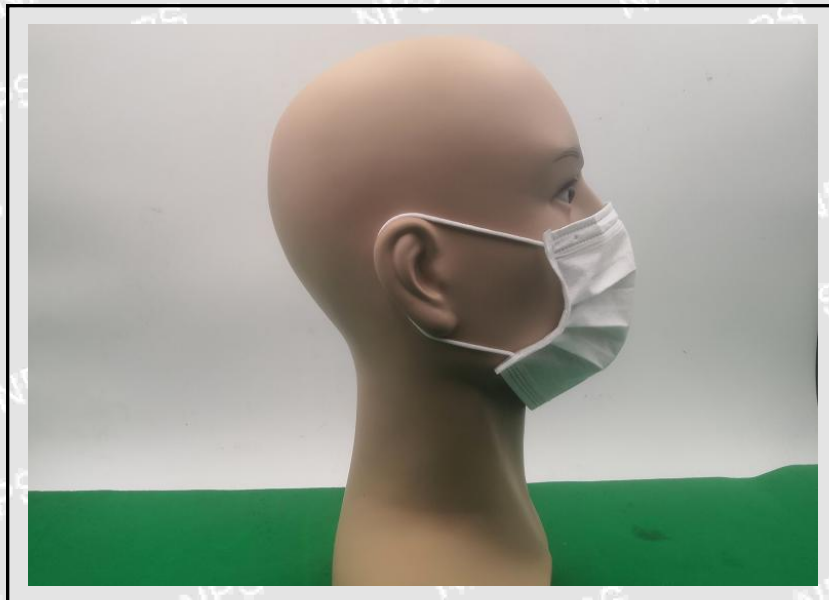


Test Sample Fig 2

## Product Photograph



**Test Sample Fig 3**



**Test Sample Fig 4**

## Product Photograph

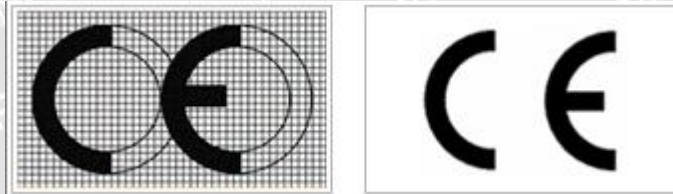


Test Sample Fig 5

## 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\*\*\*