



Ningbo Customs District Technology Center

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## TEST REPORT

**Selected test items from EN 149:2001+A1:2009 Respiratory protective devices—Filtering half masks to protect against particles—Requirements, testing, marking  
According to supervised product checks procedure at random intervals (C2)**

**The following samples were submitted and identified on behalf of the client as:**

**Product** : Particle Filtering Half Mask

**Report No.** : KZ2021859

**Client** : Universal Certification and Surveillance Service Trade Ltd.Co.

**Model(s)** : LGKN95

**Number of samples** : 20

**Received date** : 2020.07.28

**Date(s) of tests** : 2020.07.28-2020.07.29

## DESCRIPTION OF SAMPLES

<b>General information</b>	<b>Classification</b>	<b>Main components</b>
	FFP2	White folding mask
<b>Manufacturer</b>	Guangdong Languan Medical Biotechnology Co., Ltd	
<b>Manufacturer address</b>	Room 202, building 3, No.55 Dajing Daxin Road, Houjie Town, Dongguan City, Guangdong Province	

**Approve:** 傅科杰 Fu Kejie  
Authorized Signatory, Lab Director

**Reviewer:** 傅丹华 Fu Danhua

**Chief Tester:** 冯云 Feng Yun

**Issued:** 2020.07.29



## Test Report No. KZ2021859

### Conditions:

The test results presented in this report relate to the samples tested only.

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The authenticity of this test report and its contents can be verified by contacting the laboratory.

### Conclusion

#### Test Items

Clause 7.9.2	Penetration of filter material	Pass
Clause 7.16	Breathing resistance	Pass

**Remarks:** Pass = Meet EN 149:2001+A1:2009 FFP2 Requirement  
Fail = Below EN 149:2001+A1:2009 FFP2 Requirement  
N/A = Not Applicable

#### Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.

By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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## Test Results

## 7.9.2 Penetration of filter material

Pass<sup>1</sup>

The penetration of the filter of the particle filtering half mask shall meet the following requirements.

Sodium chloride test 95 L/min

Paraffin oil test 95 L/min

FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

Note 1: FFP2 respirator. Test results are shown in Annex A Table 7.9.2.

## 7.16 Breathing resistance

Pass<sup>2</sup>

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

Note 2: FFP2 respirator. Test results are shown in Annex A Table 7.16.

## End of Test Results



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### Annex A: Summarization of Test Data

**Table 7.9.2 Penetration of filter material**

Test specification: EN 149:2001+A1:2009 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
Sodium chloride test	As received	01	2.75	Pass
		02	2.51	
		03	2.44	
Paraffin oil test	As received	04	4.74	
		05	4.51	
		06	4.75	
Flow conditioning: single filter: 95.0 L/min				

**Table 7.16 Breathing resistance (mbar)**

Test specification: EN 149:2001+A1:2009 Clause 8.9

As received	Flow rate	07					08					09				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30 L/min	0.63	0.55	0.63	0.50	0.57	0.47	0.45	0.44	0.43	0.46	0.48	0.44	0.41	0.52	0.42
	95 L/min	2.15	1.63	1.78	1.74	1.81	1.44	1.52	1.57	1.67	1.42	1.49	1.45	1.48	1.61	1.84
Exhalation	160 L/min	2.85	2.27	2.19	2.24	2.33	2.31	2.43	2.49	2.71	2.69	2.48	2.33	2.48	2.45	2.45
Assessment		Pass														

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side

**End of Annex A**

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Annex B: Photos of sample



End of Annex B