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# Test Report

Applicant: Guangdong YiDao Medical Technology Co.,Ltd.

Address: Room 302, Building 2, No. 1, Alley 1, Xiju Road, Hengli Town, Dongguan

City, Guangdong Province

The following sample(s) was/were submitted and identified on behalf of the clien	ehalf of the client a	on be	and identified	e submitted	was/were	mple(s)	lowing s	The foll
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Product name: Disposable mask

Model: YD-003 Trade mark: YPHD

Manufacturer: Guangdong YiDao Medical Technology Co.,Ltd.

Address: Room 302, Building 2, No. 1, Alley 1, Xiju Road, Hengli Town, Dongguan

City, Guangdong Province

Claim level: FFP3
Sample quantity: 150 Pcs

Sample Received

Jun. 23, 2020

Date:

Testing Period: Jun. 23, 2020~ Jul. 09, 2020

#### Test Requirement:

According to the requirement of the client, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

Test Result(s): Please refer to the following page(s)

**Test Method:** Please refer to the following page(s)

Compiled by:	Money	Reviewed by:	N.C.	May	3
Approved by:	Moule lion	Date:	N. C.	2020-07-21	Zi.A



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#### Summary of assessment\*

Clause	700	Assessment
7.3 Visual inspection	* 4	NRq
7.4 Packaging	310	Pass
7.5 Material	* *	Pass
7.6 Cleaning and disinfecting	300	N.A.
7.7 Practical performance	* 4	Pass
7.8 Finish of parts	300	Pass
7.9.1 Total inward leakage	* 4	Pass
7.9.2 Penetration of filter material	700	Pass
7.10 Compatibility with skin	* 4	Pass
7.11 Flammability	300	Pass
7.12 Carbon dioxide content of the inhalation air	A 1	Pass
7.13 Head harness	10 70	Pass
7.14 Field of vision	A N	Pass
7.15 Exhalation valve(s)	100	N.A.
7.16 Breathing resistance	1	Pass
7.17 Clogging	10	N.A.
7.18 Demountable parts	At 1	Pass

#### Kev

Pass	Requirement satisfied.
NRq	The clauses were not required.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
N.A.	Assessment not carried out.

<sup>\*</sup> Assessment relates only to those specimens which were tested and are the subject of this report.



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# **Test Result**

Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements Testing, Marking

(EN 149:2001+A1:2009)

#### Clause 7.3 Visual inspection

Test Requirement	Results	Comment
Marking and the information cumulied by the manufacturer	The clauses	2, 3, 3
Marking and the information supplied by the manufacturer,	were not	NRq
requirements refer to clause 9 and clause 10.	required.	45 45

# Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale packaged	4 4 4	2 4 4
in such a way that they are protected against mechanical	Comply	Pass
damage and contamination before use.	100	N N N

# Clause 7.5 Material

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Comply	Pass
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.	Comply	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	Pass
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	Pass



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# Clause 7.6 Cleaning and Disinfecting

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable,	A A A	
the materials used shall withstand the cleaning and	2 2 2	2 2
disinfecting agents and procedures to be specified by the	Assessment not	* *
manufacturer.	carried out.	N.A.
With reference to 7.9.2, after cleaning and disinfecting the	carried out.	4 4
re-usable particle filtering half mask shall satisfy the	of of	t of a
penetration requirement of the relevant class.	T. T. T.	

#### **Clause 7.7 Practical Performance**

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
A A A A A A A	Sample 11#~12#:	- de la
General:	19 19 19	7 14 1
a) head harness comfort	4 4 4	4 4
b) security of fastenings	No imperfections	t of a
c) field of vision	71, 71, 71	4
d) any other comments reported by the wearer on request.		L .L
Walking Test:		
The subjects wearing normal working clothes and wearing	4. 4. 4.	4, 4,
the particle filtering half mask shall walk at a regular rate of 6	No imperfections	+ +
km/h on a level course. The test shall be continuous, without	No imperiections	
removal of the particle filtering half mask, for a period of 10	4 4 4	Pass
	A A A	Pass
Work Simulation Test:	7, 7, 7,	2 2
a) walking on the level with headroom of (1.3 $\pm$ 0.2)m for 5min	* * *	L . L
b) crawling on the level with headroom of (0.7 $\pm$ 0.05)m for	A TO THE	
5min P	4 4 4	4 4
c) filling a small basket (see Figure 1, approximate volume =	No imperfections	+ 0+ 1
8 L) with chippings or other suitable material from a hopper	71, 71, 71,	111
which stands 1.5 m high and has an opening at the bottom to		
allow the contents to be shovelled out and a further opening	AT AT A	5 15 1
at the top where the basket full of chippings is returned.	2 7 7	4 4



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#### Clause 7.8 Finish of Parts

EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the wearer	No sharp edges or	31 3
shall have no sharp edges or burrs.	burrs	Pass

#### Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009 Clause 8.5)

Test Requirement	Results	Comment
For particle filtering half masks fitted in accordance with the	0 10 14	
manufacturer's information, at least 46 out of the 50 individual	5. 5.	4 4
exercise results (i.e. 10 subjects x 5 exercises) for total inward	* * /	4 4
leakage shall be not greater than:	1 11 11	
25% for FFP1	4 6	4 4
11% for FFP2	Detail refer to	Dono
5% for FFP3	Appendix 1	Pass
and, in addition, at least 8 out of the 10 individual wearer arithmetic	+ +	+ +
means for the total inward leakage shall be not greater than:	0 10 14	7 19 1
22% for FFP1	4 4	4 4
8% for FFP2	of of o	t at
2% for FFP3	4 4	31 3

#### **Appendix 1: Summarization of Test Data**

5	4	4	Normal	Head	Head	Speak	Normal	Mean
Subject	Sample	Condition	Breathing	Side/Side	Up/Down	Loudly	Breathing	(%)
3	31	3	(%)	(%)	(%)	(%)	(%)	(70)
Huang	1#	A.R.	1.6	1.7	1.7	1.8	1.5	1.7
Zhou	2#	A.R.	1.9	2.0	2.0	2.1	1.8	2.0
Ma	3#	A.R.	1.5	1.7	1.6	1.8	1.5	1.6
Wu	4#	A.R.	1.8	1.9	2.1	2.2	1.9	2.0
Li	5#	A.R.	1.7	1.9	1.9	1.9	1.6	1.8
Wu	6#	T.C.	1.4	1.6	1.6	1.7	1.5	1.6
Zhai	7#	T.C.	1.8	1.7	1.9	2.1	1.8	1.9
Zheng	8#	T.C.	1.6	1.5	1.8	1.9	1.6	1.7
Huang	9# 🙏	T.C.	1.4	1.8	1.8	1.9	1.5	1.7
Wu	10#	T.C.	1.9	2.2	2.1	2.4	2.0	2.1



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# Facial Dimension:

Subject	Length of Face	Width of Face	Depth of Face	Width of Mouth
Oubject	( mm )	( mm )	( mm )	( mm )
Huang	130	140	125	53
Zhou	100	148	125	55
Ma	120	158	110	50
Wu	120	154	128	54
AL LIL	112	146	112	50
Wu	110	148	121	44
Zhai	135	165	125	53
Zheng	106	157	118	51
Huang	112	172	118	55
_ Wu_	105	157	118	51

# Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

4 4 4	Test Requirement	AL AL AL	Results	Comment					
The penetration of the	The penetration of the filter of the particle filtering half mask shall								
meet the requirements	s of the following table	4 4 4	4 4	4 4					
ST ST ST	Maximum penetrat	ion of test aerosol	ot at a	t at					
Sc	odium chloride test	Paraffin oil test	4. 4.	5 5					
Classification	95 L/min	95 L/min	Detail refer to	* *					
1 2i 2i	%	%	Appendix 2	Pass					
	max.	max.		L .L					
FFP1	20	20	J J 1	7 45					
FFP2	4 64 4	4 64 4	4 4	4 4					
FFP3	*1 *	* * *	* * /	+ +					
W 100 100	11 11 1		C THE THE	THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON					



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# **Appendix 2: Summarization of Test Data**

Penetration of filter material

* *	* *	ati	Penetrat	ion (%)	Assessment
Aerosol	Condition	Sample No.	Average in 30s after 3 min	Max. during exposure	4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 10	19 19	13#	0.5		
* ~ *	A.R.	14#	0.5	474	+ 4 4
A PA	10 10	15#	0.6		
to " t	* *	22#	0.5	474	+ +
Sodium chloride test	S.W.	23#	0.5		344 3
* *	* *	24#	0.6	* / *	t t
30	31 31 .	25#	W1 W	0.1	314 3
* *	M.S. + T.C.	26#	+ + +	0.1	+ +
	N 3"	27#		0.2	310 3
* *	* *	16#	0.5	* / *	Pass
	A.R.	<u>^</u> 17#	0.5		
* *	* *	18#	0.5	* / *	大、大
	Jill Jill .	19#	0.5		21" 2"
Paraffin oil test	S.W.	20#	0.5	* 1 * 1	+ *
At At	31" 31" ,	21#	0.6		217 21
	4 4	28#	t it it	0.2	t ot
21	M.S. + T.C.	29#	3"/3"	0.3	211 21
太太	* *	30#	* * *	0.1	t at
1 Zii .	Flov	v conditionin	g: 95.0 <mark>L</mark> /min	21" 21" <u>21</u> "	21 2

# Clause 7.10 Compatibility with Skin

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

	Test Requirement	Results	Comment
	Materials that may come into contact with the wearer's skin shall	No irritation or any	0
0.0	not be known to be likely to cause irritation or any other adverse	other adverse effect	Pass
	effect to health.	to health	



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# Clause 7.11 Flammability

(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and	7 7 7	2 2
shall not be of highly flammable nature when tested, the particle	Detail refer to	Pass
filtering half mask shall not burn or not to continue on burn for	Appendix 3	Pass
more than 5 s after removal from the flame.	4 4 4	4 4

#### **Appendix 3: Summarization of Test Data**

#### Flammability

.0	Condition	Sample No.	Result	Assessment
	4 P 4	31#	Nonflammable	7. 4. 4.
A.R.		32#	Nonflammable	Pass
~	TC	33#	Nonflammable	Pass
-	₹T.C. ₹	34#	Nonflammable	

#### Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space)	Detail refer to	Pass
shall not exceed an average of 1.0 % (by volume)	Appendix 4	Fass

# **Appendix 4: Summarization of Test Data**

Carbon Dioxide Content of The Inhalation Air

	Condition	Sample No.	Result	A A .	Assessment
Š	7, 7,	35#	0.31%	Magayalua	3 3
	A.R.	36#	0.36%	Mean value	Pass
4		37#	0.35%	0.34%	



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#### Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	7, 7,
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in	Comply	Pass
position and be capable of maintaining total inward leakage requirements for the device.	Comply	Sill Si

# Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	4	Results	Comment
The field of vision is acceptable if determined so in practical performance	0	Comply	Pass

# Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Assessment not carried out.	10 × 10
b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Assessment not carried out.	N.A.
c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s.	Assessment not carried out.	Fight Figh
(d) When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10 N applied for 10 s.	Assessment not carried out.	- 10t 1



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# Clause 7.16 Breathing Resistance

EN 149:2001+A1:2009, Clause 8.9)

D D D	Test Requi	irement	4	.Q	Results	Comment
The penetration of the meet the requirement			half mask shall	4	£ 1 2 1	4 4
	Maximum pe	ermitted resist	ance (mbar)	1	30 30	3147 31
Classification	Inhala	ation	Exhalation	,	Detail refer to	- 4
10 10 10	30 L/min	95 L/min	160 L/min	3.40	Appendix 5	Pass
FFP1	0.6	2.1	3.0	4	4 4	4 4
FFP2	0.7	2.4	3.0	2		At .
FFP3	1.0	3.0	3.0	2	21 21	2 2
ملہ ملہ ملہ	<u>.</u>	L 1	AL AL	*	- al- al-	- 1

# **Appendix 5: Summarization of Test Data**

4	4	Inhalation Exhalation resistance(mbar)				0	4		
Specimen	Condition	At 30	At 95	7 4	A	t 160 L/min	7 .	7. 4	
A 1	- 4	L/min	L/min	A	В	个c 个	D	Æ	1
38#	1, 1,	0.5	2.1	2.8	2.8	2.7	2.8	2.8	
39#	A.R.	0.5	2.1	2.8	2.8	2.8	2.7	2.8	
40#		0.5	2.1	2.7	2.8	2.8	2.8	2.7	1
41#	4. 4.	0.6	2.2	2.8	2.9	2.8	2.9	2.9	
42#	S.W.	0.6	2.2	2.8	2.9	2.9	2.9	2.9	1
43#		0.6	2.2	2.9	2.9	2.9	2.9	2.9	
44#		0.5	2.1	2.7	2.7	2.7	2.7	2.7	
45#	T.C.	0.5	2.1	2.7	2.7	2.7	2.7	2.7	25
46#	4 4	0.5	2.1	2.7	2.7	2.7	2.7	2.7	
/		/	/	/	/	/	/	/	
/	F.C.	/	/						6
/		/	/	/		/			

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



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# Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

d d d	Test Requirement		Results	Comment
Claus Valve After clogging the inh mbar, FFP2: 5 mbar, exhalation resista	Assessment not carried out.	N.A.		
	halation and exhalation par, FFP2: 4 mbar, FFP continuous flow		- 1 - 1	- A. A.
1 1 1	Test Requirement	11 11 11 11	Results 📏	Comment
All types (valved and v	1	ering half masks claimed meet the requirements.	+ 21 21 21 21 21 21 21 21 21 21 21 21 21	Till Ti
Classification	Sodium chloride test 95 L/min % max.	Paraffin oil test 95 L/min % max.	Assessment not carried out.	N.A.
FFP1 FFP2 FFP3	20 6	20 6		Sill Si
A 4 A	A A A	TO AT A	T AT A	At A

# Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and	Comply	Pass
secured, where possible by hand	Comply	1 455



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#### Sample photo(s):



Fig.1



Fig.2

This test report displaces the original report No. S20061201301E-R3, and the original one was invalid since the date of this test report No. S20061201301E-R3 released.

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

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