Products				A TÜ	<b>V</b> Rheinland®	
Prüfbericht-Nr.: Test Report No.:	60379483 00	)1	Auftrags-Nr. Order No.:	168265694	Seite 1 von 12 Page 1 of 12	
Kunden-Referenz-Nr.: Client Reference No.:	N/A		Auftragsdatum Order date:	: May 20, 2020		
Auftraggeber: Client:	3th B, 4th Flo	edical Technolog or, Building No.4, n District, Shenzh	Chuangfu Indust	trial Park, Xixiang	Tiegang Reservoir	
Prüfgegenstand: Test item:	Disposable M	ledical Mask				
Bezeichnung / Typ-Nr.: Identification / Type No.:	175mm × 94r	mm, 150mm × 65n	nm, 145mm × 94n	nm		
Auftrags-Inhalt: Order content:	Type test					
Prüfgrundlage: Test specification:	EN 14683:20	19+AC:2019 exce	ept for clause 5.2.	6		
Wareneingangsdatum: Date of receipt:	May 20, 2020	)				
Prüfmuster-Nr.: Test sample No.:	20200516		]			
Prüfzeitraum: Testing period:	May 21, 2020 to Jun. 01, 2020 See page 3		See Attachment: Photo documentation for details.			
Ort der Prüfung: Place of testing:						
Prüflaboratorium: Testing laboratory:	TÜV Rheinla Co., Ltd.	nd (Shenzhen)				
Prüfergebnis*: Test result*:	Pass		]			
geprüft von / tested by:			kontrolliert von	I reviewed by:		
Lucy J	liang			Angelial		
Jun. 28, 2020 Lucy Jian	g / Assistant P	roject Engineer	Jun. 28, 2020 A	ingela Chen / Dep	artment Manager	
Datum Name / Stelle Date Name / Positi		Unterschrift Signature		ame / Stellung ame / Position	Unterschrift Signature	
Sonstiges / Other:  - The test report consist documentation (9 pages)  - The Biocompatibility (	sts of EN 1468 3).	33 test report inclu	ding this cover pa			
Zustand des Prüfgegen Condition of the test item		Anlieferung:		tändig und unbese ete and undamage		
Legende: 1 = sehr gut P(ass) = entspricht o.  Legend: 1 = very good	2 = good	3 = satisfactory	ht o.g. Prüfgrundlage(n)	4 = sufficient	5 = mangelhaft N/T = nicht getestet 5 = poor	
P(ass) = passed a.m. Dieser Prüfbericht bez auszugsweise vervi This test report only relates t	rieht sich nur a elfältigt werder o the a. m. test	uf das o.g. Prüfmu n. Dieser Bericht be sample. Without per	ster und darf ohn erechtigt nicht zur mission of the test	Verwendung eine	s Prüfzeichens.	

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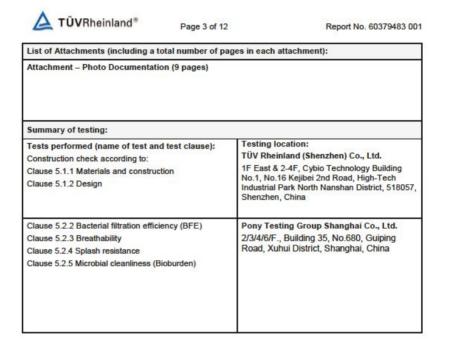
Report No. 60379483 001

Effective date: 2020-03-12

	EN 14683:2019+AC: 2019 Medical face masks —
Report Reference No:	quirements and test methods 60379483 001
Date of issue:	See cover page
Total number of pages:	See cover page
Testing Laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.
Address:	1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd Road, High-Tech Industrial Park North Nanshan District, 518057, Shenzhen, China
Applicant's name:	Diasia Biomedical Technology Co., Ltd.
Address:	3th B, 4th Floor, Building No.4, Chuangfu Industrial Park, Xixiang Tiegang Reservoir Road, Baoan District, Shenzhen, China
Test specification:	
Standard:	EN 14683:2019+AC:2019
Test procedure:	Type test
Non-standard test method:	N/A
Test Report Form No:	EN 14683:2019+AC:2019_A
Test Report Form Originator:	TŪV Rh (SZ)
Master TRF:	2020-03
Test item description:	Disposable Medical Mask
Trade Mark:	DIASia
	<b>一</b> 德夏 <b>一</b>
Manufacturer:	Same as the applicant
Model/Type reference:	175mm × 94mm, 150mm × 65mm, 145mm × 94mm
Classification:	Type IIR

QMF-RT-33008SHG Revision number: 1.0

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TÜVRheinland®	Page 4 of 12	Report No. 603794
Copy of marking plate		
The artwork below may be authorized by the respective	only a draft. The use of certification e NCBs that own these marks.	marks on a product must be
See attachment.		
MF-RT-33008SHG	Revision number: 1.0	Effective date: 2020-03-

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	Page 5 of 12	Report No. 60379483 0
Testing		
Date of receipt of test item(s)	See cover page	
Dates of tests performed		
Possible test case verdicts:		
- test case does not apply to the test of	object N/A	
- test object does meet the requirement	nt P (Pass)	
- test object was not evaluated for the	requirement: N/E (collateral s	tandards only)
- test object does not meet the require	ement F (Fail)	
General remarks:		
Additional test data and/or informatio		of anidal of large and
Name and address of factory (ies)	: Same as the ap	plicant
Name and address of factory (ies).  General product information:	: Same as the ap	plicant

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Report No. 60379483 001

	EN 14683:2019+AC:20	19				
Clause	Requirement + Test	Result - Remark	Verdic			
4	Classification	A	Р			
	Medical face masks specified in this European Standard are classified into two types (Type I and Type II) according to bacterial filtration efficiency whereby Type II is further divided according to whether or not the mask is splash resistant. The 'R' signifies splash resistance.	Type IIR	Р			
5	Requirements					
5.1	General		Р			
5.1.1	Materials and construction		P			
	The medical face mask is a medical device, generally composed of a filter layer that is placed, bonded or moulded between layers of fabric.	3 ply designed with two layers of non-woven fabric and one layer of melt blown fabric.	Р			
	The medical face mask shall not disintegrate, split or tear during intended use.		P			
	In the selection of the filter and layer materials, attention shall be paid to cleanliness.		P			
5.1.2	Design		Р			
	The medical face mask shall have a means by which it can be fitted closely over the nose, mouth and chin of the wearer and which ensures that the mask fits closely at the sides.		P			
	Medical face masks may have different shapes and constructions as well as additional features such as a face shield (to protect the wearer against splashes and droplets) with or without anti-fog function, or a nose bridge (to enhance fit by conforming to the nose contours).	With nose clip	P			
5.2	Performance requirements		P			
5.2.1	General		Р			
	All tests shall be carried out on finished products or samples cut from finished products.		P			
5.2.2	Bacterial filtration efficiency (BFE)		Р			
	When tested in accordance with Annex B, the BFE of the medical face mask shall conform to the minimum value given for the relevant type in Table 1.	See appended table 5.2.2	Р			
	For thick and rigid masks such as rigid duckbill or cup masks the test method may not be suitable as a proper seal cannot be maintained in the cascade impactor. In these cases, another valid equivalent method shall be used to determine the BFE.	Not such mask.	N/A			

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	EN 14683:2019+AC:201	19	
Clause	Requirement + Test	Result - Remark	Verdic
	When a mask consists of two or more areas with different characteristics or different layer-composition, each panel or area shall be tested individually.	Same characteristics and same layer-composition declared by manufacturer.	N/A
	The lowest performing panel or area shall determine the BFE value of the complete mask	See above	N/A
5.2.3	Breathability		P
	When tested in accordance with Annex C, the differential pressure of the medical face mask shall conform to the value given for the relevant type in Table 1.	See appended table 5.2.3	P
	If the use of a respiratory protective device as face mask is required in an operating theatre and/or other medical settings, it might not fulfil the performance requirements with regard to differential pressure as defined in this European Standard. In such case, the device should fulfil the requirement as specified in the relevant Personal Protective Equipment (PPE) standard(s).		N/A
5.2.4	Splash resistance		P
	When tested in accordance with ISO 22609:2004 the resistance of the medical face mask to penetration of splashes of liquid shall conform to the minimum value given for Type IIR in Table 1.	See appended table 5.2.4	P
5.2.5	Microbial cleanliness (Bioburden)		P
	When tested according to EN ISO 11737-1:2018 the bioburden of the medical mask shall be $\leq$ 30 CFU/g tested (see Table 1).	See appended table 5.2.5	P
5.2.6	Biocompatibility		N/E
	According to the definition and classification in EN ISO 10993-1:2009, a medical face mask is a surface device with limited contact.	The biocompatibility is not evaluated in this test report.	N/E
	The manufacturer shall complete the evaluation of the medical face mask according to EN ISO 10993-1:2009 and determine the applicable toxicology testing regime.		N/E
	The results of testing should be documented according to the applicable parts of the EN ISO 10993 series.		N/E
	The test results shall be available upon request.		N/E
6	Marking, labelling and packaging		P
	Annex I, §13, of the Medical Devices Directive (93/42/EEC) or Annex I, §23, of the Medical Device Regulation (EU) 2017/745 specifies the information that should be specified on the packaging in which the medical face mask is supplied.	See attachment.	P
	The following information shall be supplied:		Р
	a) number of this European Standard;		P

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	EN 14683:2019+AC:	2019	
Clause	Requirement + Test	Result - Remark	Verdict
	b) type of mask (as indicated in Table 1).		Р
	EN ISO 15223-1:2016 and EN 1041:2008+A1:2013 should be considered.		Р

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Clause	Requiren	nent + Test			Re	sult - Remark		Verdict
5.2.2		TABLE: Bacte	erial filtratio	on efficienc	y (BFE)			Р
Batch/ lot no.:	Test Specimen no.:	Dimension of the test specimen L x W (mm x mm)	test area (cm²)	Flow rate (l/min)	Mean of the total plate counts of the two positive controls	count of	BFE for each test specimen (%)	Remarks
2020051	1	164×144	95.0	28.3			99.4	-
6	2	164×145	95.0	28.3			99.8	
	3	163×144	95.0	28.3	1729	0	99.6	
	4	164×144	95.0	28.3	1811		99.6	-
	5	165×145	95.0	28.3			99.8	-

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Supplementary information:

1, Each specimen was conditioned at 21 °C and 85 % relative humidity for 4 h to bring them into equilibrium with

atmosphere prior to testing.

2, The side of the test specimen was facing towards the challenge aerosol: the inside of the test specimen.

		EN 1469	3:2019+AC:2019			
Clause	Paguiran	nent + Test		esult - Remark	Verdict	
				court - Ivernark		
5.2.3		TABLE: Breathability (Differen		P		
Batch/ lot no.:	Test Specimen number- Test area number	Differential pressure for each test area (Pa/cm²)	The averaged differential pressure for each test specimen (Pa/cm²)	Flow rate (l/min)	Remarks	
202005	1-1	26.2		8.0	227	
16	1-2	28.2	26.9	8.0	. <del></del> .	
	1-3	26.9		8.0	-50	
	1-4	28.1		8.0	227	
	1-5	25.1		8.0	-	
	2-1	32.0		8.0		
	2-2	31.9	32.2	8.0	227	
	2-3	32.9		8.0	140	
	2-4	31.3		8.0		
	2-5	33.1		8.0	228	
	3-1	29.6		8.0	920	
	3-2	27.9	<u> </u>	8.0	<del>77</del> 53	
	3-3	30.3	29.2	8.0	227	
	3-4	27.6	1 1	8.0		
	3-5	30.7		8.0	( <del>110</del> )	
	4-1	31.9	4 L	8.0	20%	
	4-2	33.4		8.0		
	4-3	31.8	32.3	8.0	2500	
	4-4	31.1		8.0	22%	
	4-5	33.2		8.0	223	
	5-1	31.8	ļ ļ	8.0		
	5-2	32.3		8.0	227	
	5-3	29.9	31.8	8.0	123	
	5-4	33.0	↓	8.0	<del></del> 0	
	5-5	31.9		8.0	227	

	EN 14	1683:2019+AC:201	19	
Clause Requireme	1.00.04		Result - Remark	Verdi
atmosphere prior to tes	ting.		***************************************	
earren European				
5.2.4 TABLE: S	plash resistance Test mask no.:	The meterial	Toot result	P Remarks
batch/ lot no.:	Test mask no.:	The material of tested mask	Test result (Pass/fail)	Remarks
20200516	1		Pass	
	2		Pass	=
	3		Pass	12
	4		Pass	
	5		Pass	7
	6		Pass	22
	7		Pass	=======================================
	8		Pass	=
	9		Pass	22
	10		Pass	=
	11	See clause	Pass	=
	12		Pass	=
	13		Pass	=
	14		Pass	22
	15	5.1.1	Pass	=
	16	0)	Pass	<u> </u>
	17		Pass	<u> </u>
	18		Pass	=
	19		Pass	<u> 170</u>
	20		Pass	<u> 14.74</u>
	21		Pass	==
	22	] [	Pass	<u> </u>
	23		Pass	<u>12</u>
	24		Pass	
	25	[	Pass	77
	26		Pass	22
	27	] [	Pass	=
	28		Pass	==
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	EN 146	83:2019+AC:2019	
Clause	Requirement + Test	Result - Remark	Verdict
	29	Pass	75
	30	Pass	22
	31	Pass	22
	32	Pass	77.

#### Supplementary information:

- 1, Each specimen was conditioned at  $\underline{21}$  °C and  $\underline{85}$  % relative humidity for  $\underline{4}$  h to bring them into equilibrium with atmosphere prior to testing.
- 2, The description of target area tested: the centre of the specimen.
- 3, Any technique used to enhance visual detection of synthetic blood: cotton absorbent swab.
- 4, The temperature and relative humidity for testing: 21 °C and 85 %.
- 5, Description of any pre-treatment techniques used: N/A.

5.2.5	TABLE: M	: Microbial cleanliness (Bioburden)				
Batch/ lot no.:		Mask(under test) no.:	Weight of each mask (g)	Total bioburden per individual mask (CFU/g)	Remarks	
20200516		1	3.00	19	-	
		2	3.01	15	022	
		3	3.01	25	61	
		4	2.99	21	0.77	
		5	3.00	16	1122	

End of EN 14683 test report

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