

EKOTEKS LABORATUVAR ve GÖZETİM HIZMETLERI A.Ş.

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar İstanbul/ TÜRKİYE



TEST REPORT DENEY RAPORU

AB-0583-T 20039115

10-20

ROSERV PHARMA SRL

21, Marea Unire Bvd, Building U6, Room 21, Galat., 800329- Galati County, Customer name: Address:

ROMANIA

Buyer name:

DANA SAVU Contact Person:

Order No:

Light blue non-woven medical mask. Article No: Name and identity of test item:

20.10.2020 The date of receipt of test item:

Re-submitted/re-confirmation

20.10.2020-28.10.2020 Date of test:

Remarks:

Sampling:

The results given in this report belong to the received sample by vendor.

End-Use:

Not specified. Care Label:

Number of pages of the report:

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European cooperation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. accredited by TÜRKAK under registration Mutual recognition of test reports.

number [AB-0583-T] for ISO 17025:2017 as test laboratory. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

STED S

Date 28.10.2020 Customer Representative uğba AMEAŞ I

Head of Testing Laboratory Sevim A. RAZAK 28.10/2020

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REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TESTS		
Bacterial Filtration Efficiency-BFE	P	TYPE IIR
Microbial Cleanliness(Bioburden)	P	
PHYSICAL PROPERTIES		
Breathability(Differential Pressure)	P	
Splash Resistance	P	

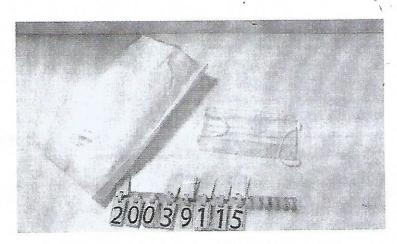
P: Pass

F: Fail

R: Refer to retailer technologist.

Tests results were evaluated according to EN 14683:2019+AC :2019 Tablo 1 limit values.

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



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TEST RESULTS

BACTERIAL FILTRATION EFFICIENCY (BFE)

Test Metod: (Bacterial Filtration Efficiency Testing –BFE /Ref: EN 14683:2019+AC:2019 Medical Face Masks, Requirements and Test Methods

A specimen of the mask material is clamped between a impactor and an aerosol chamber. An aerosol of Staphylococcus aureus is introduced into the aerosol chamber and drawn through the mask material and the impactor under vacuum. The bacterial filtration efficiency of the mask is given by the number of colony forming units passing through the medical face mask material expressed as a percentage of the number of colony forming units present in the challenge aerosol.

Test Flow Rate	28,3 L/min
Test Flow Time	2 minute
Sample Sizes	5 pieces mask
Microorganism	Staphylococcus aureus ATCC 6538
Bacterial concentration (cfu/ ml)	5x10 ⁵ cfu/ ml
incubation conditions	24 hour, 35°C ± 2°C
Positive control sample average of number of Bacteria (C)	2.85x10 ³ cfu/ ml

	RESULTS		
Number of Test Sample	Test Sample (T) Number of Bacteria . (cfu/ml)	Bacterial Filtration Efficiency (% B)	Requirement BFE (%)
1	54	%98,1	
2	41	%98,6	Type I ≥95
3	48	- %98,3	Type II ≥98
4	43	%98,5	
5	55	%98,1	

cfu: Colony-forming unit

 $B = (C-T)/C \times 100$

%B: Bacterial Filtration Efficiency

C: is the mean of the total plate counts for the two positive control runs

T: is the total plate count for the test specimen

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TEST RESULTS

MICROBIAL CLEANLINESS (Bioburden)

Test Metod: EN ISO 11737-1:2018

The sample is put in extraciton liquid after shaking well, inoculated on the agar.

After incubation at 30 ± 1 ° C for 72 hours, growth microorganisms are counted on the agar.

	RESULTS	REQUIREMENT
licrobial cleanliness (cfu/g)	16 cfu/g	≤30 cfu/g Type I and Type II mask

^{*}cfu= Colony forming unit.

SPLASH RESISTANCE (ONLY FOR TYPE IIR)

Test Metod: EN 14683:2019+AC :2019 (Clause 5.2.4) 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

ISO 22609 :2004 Clothing for protection against infectious agents — Medical face masks — Test method for resistance against penetration by synthetic blood (fixed volume, horizontally projected)

Test Condition (21 \pm 5) °C ve (85 \pm 5) % relative humidity, 4 hrs

6 different samples were taken

	SPLASH RESISTANCE PRESSURE (kPa)	RESULTS	REQUIREMENT
1	>21.3 kPa	- PASS	1
2	>21.3 kPa	PASS *	
3	>21.3 kPa	PASS	>40 l-D-
4	>21.3 kPa	PASS	≥16 kPa
5	>21.3 kPa	PASS	
6	>21.3 kPa	PASS	
Average Result	>21.3 kPa	PASS	

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TEST SONUÇLARI

BREATHABILITY (Differential Pressure)

Test Method: EN 14683:2019+AC :2019 (TS EN 14683+AC:2019) Annex-C

Test Condition (21 \pm 5) °C ve (85 \pm 5) % relative humidity, 4 hrs Test area is 25 mm in diameter , 5 different sample was taken Adjusted airflow is 8 l/min.The differential pressure is read directly using a differential pressure manometer .

SAMPLE	DIFFERENTIAL PRESSURE RESULT	REQUIREMENT
1	37,7 Pa/cm²	
2	45,0 Pa/cm2	
3	51,2 Pa/cm2	< 60 Pa/cm ²
4	40,7 Pa/cm2	
5	41,5 Pa/cm2	
Average Result	43,2 Pa/cm2	