

# **LATEX Free Declaration**

## We,

## DEXXON ENERJİ SAN. VE TİC. A.Ş

YENİBOSNA MERKEZ MAH., 29 EKİM CAD., İSTANBUL VİZYON PARK OFİS BLOKLARI, PLAZA: 1 FLOOR : 8 BAHÇELİEVLER / İSTANBUL / TURKEY

declare under our sole responsibility that the PPE product listed below

Product Description	NON REUSABLE FFP2 NR FACE MASK
Article No	DXNMD NRFM04
Туре	FFP2 NR
Manufacturer	DEXXON ENERJİ SAN. VE TİC. A.Ş
Brand Name	DEXXON MEDICAL
Applicable Harmonised Standards	EN 149: 2001 + A1: 2009

# **Dexxon Medical Face Masks Position on Natural Rubber Latex**

We declare that the product described above meets the requirements of the relevant provisions of the regulation as a result of the EU Type examination according to Annex 5 of the PPE Personal Protective Equipment Regulation (2016/425 / EU) This Declaration of Conformity covers the PPE device as specified in the product list belonging to this declaration.

*Dexxon Medical does not use Natural Rubber latex in our materials, packaging, processing aids, or the handling of product. Dexxon Medical does not allow latex into our facilities and we declare we are a Latex Free business.* 

As a manufacturer, we now declare that our above medical and protective face masks are free of latex, free of silicones and free of PVC. The material and parts named above, including any of their possible decomposition products, are not known to cause adverse effects to user hygiene or health, nor are likely to cause irritation, during normal use. The materials used in the product are produced in accordance with the human body and do not have any allergic properties.

Because of the product is used in the health sector, skin sensitivity, irritation and conformity assessment processes are supported by biocompatibility tests.

Sincerely,

Murat Koç President 09.02.2022







# MATERIAL DECLARATION AND BIOCOMPATIBILITY TESTS

The material and parts named above, including any of their possible decomposition products, are not known to cause adverse effects to user hygiene or health, nor are likely to cause irritation, during normal use.

## Compatibility with the skin

The materials used in the product are produced in accordance with the human body and do not have any allergic properties.

Because of the product is used in the health sector, skin sensitivity, irritation and conformity assessment processes are supported by biocompatibility tests.

The skin compatibility (biocompatibility) performance tests of the product are presented in ANNEX:

I CONFIRM THAT THE DECLERATION IS TRUE AND VALID 🗵





We declare that the products/materials recommended for maintenance, cleaning and disinfecting do not have any adverse effect on the PPE or the user when applied in accordance with the relevant instructions.

8.2 Declaration – Supply of User Information (Annex III k)

We declare that the user information accompanies each smallest commercially available unit.

I CONFIRM THAT THE DECLERATION IS TRUE AND VALID 🗵

Approved by

Murat Koç General Manager



## **BIOCOMPABILITY TESTS**

- CYTOTOXICITY TESTS
- DERMAL IRRITATION TEST ANALYSIS
- SENSITIZATION TESR RESULT REPORT



OXIGEN ANALİZ ÖZEL KONTROL LABORATUVARI Çakmaklı Mah. Hadımköy Bağlantı Yolu Ufuk Plaza No:57 K:1 D:8 34500 Büyükçekmece/İSTANBUL INSPECTION AND ANALYSIS REPORT



#### Report Number

Purpose of Analysis

Costumer name/addres

Name and identity of test item Code of sample Package of Sample/Quantity Date of receipt of test item Date of Test/End of test

Number of pages

03-2021 : 2021-C-00627 Date of Report : 12/03/2021 : Cytotoxicity Test : DEXXON ENERJI SAN VE TIC A.Ş. /Istanbul Vizyon Park Ofis Blokları Yeni Bosna Merkez Mah 29 Ekim Cad No:3 Plaza : 1 Kat : 8 No: 84 / İstanbul

DE-KOVERTERFERENCE (No.3 Plaza 1: Kati S. NO: 84 / Istanbul
 Non-Reusable Protective FFP2 NR Colored Filtering Half Mask
 DXNMD-NRFM04 FFP2 NR COLORED MASK

: 3 Piece : 04/03/2021

: 05/03/2021 - 12/03/2021

: 6

Analysis	Unit	Result	Limit Of Measurement	Recovery	Uncertainity of Meas.	Analysis Metod	Com.
I-*InvitroCytotoxicity Test		it is not Cytotoxicity				TS EN ISO 10993- 5((Biologicalevaluation in medicaldevicesPart 5: Test for in vitrocytotoxicity TS EN ISO 10993-12 (Biologicalevaluation in medicaldevicesPart 12: Test samplepreparationand Reference Materials	U

## Explanation: 1. Experiment environment CELL LINE: L929 (Mouse Fibroblast cell) CultureMedium : DMEM+ L-Glutamin Fetal Bovine Serum Penisilin- Streptomisin Blank :Sterile cell culture medium NEGATIVE CONTROL:Polietilen Kryo Tüp + Cell POSITIVE CONTROL:Natural RubberLatex+ Cell 2.METHOD OF APPLICATION Extraction was performed according to TS EN ISO 10993-12 standard. The samples were placed in a waterbath at a rate of 50 rpm at 37°C for 24 hours in a 10% serum-containing cellculture medium of the size specified in the standard. The extraction was then terminated and the extract obtained was used within 24 hours. 3.ANALYSIS METHOD 0%20 Etikimza Süreç No : 92k8l7osv3026f1ea7d5 kodu ile www.oxigenanaliz.com adresinden doğrulayabilirsiniz.

F11/PR20/Rev:00/00.00.00 Yayın Tarihi: 14.12.2016

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#### Report Number

: 2021-C-00627

Date of Report

12/08/2021

## Qualitative Evaluation.

Cells were expected to become confluent by sowing 6 well plates.

Subsequently, the 37°C 5% CO2 sample was exposed to negative, positive control and sample extracts for 24 hours. After incubation, cells were microscopically examined ande valuated according to TS EN ISO 10993-5 standard.

#### Quantitative Evaluation:

In the study, it was applied according to the "TS EN ISO 10993-5 / XTT Cytotoxicity Experiment" standard. The %-well plate was counted as 100 / well and the cultured cells were incubated for 24 hours to provide 80% confluency. Subsequently, the cells were exposed to 1/1 dilutions of the sample extract for 4 hours.

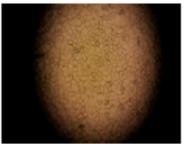
At the end of the process, 1 mg / ml. XTT was added to the wells and the plates were incubated for 3 hours at 37 ° C in 9% CO2. The assay was terminated by the addition of isopropyl alcohol to the wells and the% viability values were calculated by measuring the color change in the plates (570-650 nm) spectrophotometer.

## 4. TEST RESULTS

#### Qualitative Evaluation:

The qualitative evaluation was made according to Table 1 in TS EN ISO 10993-5 standard.

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AB-0953-T
2011-C-00627
03-3021

Report Number Date of Report : 2021-C-00627 12/08/2021 c. Numune Must Test Material Situations of Cultures Reaction No. Discreteendoluminalgranules, celldisruptionno, Negative Control nodecrease in cellproliferation 1 0 Positive Control 2 4 Nearlyalloellayers have been destroyed Sample Discreteintracolasmagnanales, no cell 3 0 destruction, no decrease in cell proliferation Quantitative Evaluation: (TS EN ISO 10993-5 / XTT Cytotoxicity Test)

Etikinijaiskukuki : Boketokiv3026/1ea7d5 kodu ile www.oxipenanaliz.com adresinden doğrulayabilirsiniz.



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Report Number

: 2021-C-00627

Date of Report

12/08/2021

D	ILUTION RATIO	)S				
TEST NUMBER	100%	75%	50%	25%		
1. AGAIN	0,976	1,114	1,224	1,336		
2. AGAIN	0,835	1,138	1,203	1,339		
3. AGAIN	0,987	1,125	1,229	1,351		
AVERAGE	0,932	1,125	1,218	1,342		
POSITIVE CONTROL	100%	75%	50%	25%		
1. AGAIN	0,104	0,206	0,321	0,426		
2. AGAIN	0,106	0,208	0,314	0,441		
3. AGAIN	0,108	0,201	0,325	0,405		
AVERAGE	0,106	0,205	0,320	0,424		
Negative Control(%100)	1.Again	1.Again 2.Again 3.Again				
%100 Ekstrakt	1,109					
AVERAGE	GE 1,11					
	A2	A3	A4	A5	A6	A7
Blank	0,888	0,990	0,999	0,996	1,010	1,002
CHOIN	H2	H3	H4	H5	H6	H7
	0,991	0,992	0,994	0,999	1,080	1,099
AVERAGE			1.00	8		

Viab.%=100 X OD450e/OD450b

OD450e : % 100 optical density of the sample extract

OD4506 : Average value of optical density of blank



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Report Marsh

Date of Report

12/08/2021

Test SampleViab.% : % 93 PozitiveControlViab.% % 11 Negative ControlViab.%: %111

2021-C-00427

#### REVIEWS :

1. The test was carried out in accordance with the standard "TS EN ISO 10993-5 Biological evaluation of medical devices-Part 5: extrac or poreal cytotoxicity tests".

2. The effect of the extracts on the cells for qualitative evaluation was examined microscopically and evaluated by the qualitative morphological grading of the cytotoxicity of the extracts given in the standard "Table 1. Accordingly, the negative control showed no toxic effect on the cells (0), and the positive control showed toxicity as high as expected [4]. Since the cytotoxic effect of the sample extracts was not toxic when examined, it wasevaluated as (0). According to the standard used, as indicated in table 1, the presence of a larger rating value of (2) is considered a cytotoxic effect.

3.The "TS EN ISO 10993-5 / XTT Cytotoxicity Experiment" wasused as the quantitative evaluation method and the obtained results (Table 2) were evaluated statistically. Results from the negative and positive controls used and test validity criteria are met.

In this experiment, the effects of 1/1 dilutions of sample extract on cells were examined; The complete dilution of extract from the sample (1/1) and viability was 93 %.

According to the standard used, this value is lessthan 70%, indicating that there is no yto toxic effect on thesampleextracts since there is a cytotoxicityindicator.



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Report Number

: 2021-C-00627

Date of Report

: 13/08/2025

Chart1.Qualitative morphological grading of cytotoxicity of extracts

Degree	Reaction	Situations of Cultures
٠	No	Discreteintraopiasma granules, no cell destruction, no decrease in cell proliferation
1	Very Ittle	There are more than 20% of cells that are not round, poorly adherent, and contain few or no intracellular granules, or morphologicallyaitered, rarely destroyed cells, only slight growth inhibition can be observed
2	Light	Round cell number is less than 50%, nointraplosiongranules, observable cell inhibition is not more than 50%
3	Middle	The number of cells rounded or destroyed is not more than 70%, the cell layers are not completely degraded, the observable cell inhibition is more than 50%
4	Severe	Nearly all cell layers have been destroyed

(\*) Analysis method is in scope of acaditation. Evaluation:

Techyometric Temborementioned values were determined as the result of the importion and analysis. 1.No part of this subject along or can be used along on a part of this subject as a determined and the other sub-

2. And yes meditarevalid for heab overangle

When necessary, "Massement Excetainty" and "Recover" informationangiveringstherwithdeseabylisments
 Und aid andschnisterativeprocedurents to uneffendentisingsorpose. It can not be partially spondaudesdaubilishedwithcorporation
 Massement succetainty is applied in favor of the customer in Quantitative Analysis.
 Decision Rule is not applied in microbiological analyses.

Abbreviations: N.A.: Not Detected A: Appropriate IA: Inappropriate AF: AssessmentFailedEVL Studiation

Cel Microbiology Unit Responsible Herve Lamia Dumir

miltie of theDepartment of Kadelyn (KRRF at of Sample Adminutos

13/09/2021 and Nor ERAT

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# **BIOCOMPABILITY TESTS: DERMAL IRRITATION**

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Test Adi/Testing Name: DERMAL IRRITASYON &	Rapor Numarasi/Report No	KBYU0005/2021-	THETING LABORATORY INVESTIGATION OF A NAC-300-75.
DERMAL IRRITATION	Report Human any Report Ho	03/BYU/1451	NAC-003-TL
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## **BİYOUYUMLULUK TEST LABORATUVARI** BIOCOMPATIBILITY TESTING LABORATORY

FIRMA ADI/COMPANY NAME:	DEXXON MEDICAL/DEXXON ENERJÎ SAN VE TÎC. A.Ş.
ADRES/ADDRESS:	ISTANBUL VIZYON PARK OFIS BLOKLARI YENIBOSNA MERKEZ
	MAH. 29 EKİM CAD. NO:3 PLAZA 1 K:8 NO:84 BAHÇELİEVLER
	- ISTANBUL - TURKEY
TESTÎN ADI/TESTING NAME:	DERMAL IRRITATION
TEST STANDARDI/TEST STANDARD:	TS EN ISO 10993-10: 2014-02
TİCARİ MARKA (VARSA)/COMMERCIAL BRAND	•
(IF YOU HAVE):	
ÜRÜN ADI/PRODUCT NAME:	FFP2 NR DISPOSABLE VALVE FACE MASK
NUMUNE KAYIT NO/SAMPLE REGISTRATION NO:	KBYU0015/2021
NUMUNE LOT NUMARASI/LOT NUMBER OF SPECIMENS:	DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR
NUMUNE SAYISI/NUMBER OF SPECIMEN:	
TEST BAŞLAMA TARİHİ/TEST START DATE:	02.03.2021
TEST BİTİŞ TARİHİ/TEST END DATE:	05.03.2021
RAPOR TARIHI/REPORT DATE:	22.03.2021
KULLANILAN CİHAZLAR/USED DEVICES:	-
EA TANIMLAMASI/EA DESCRIPTION:	Asia Pasific Accreditation Association (APAC) ISO/IEC 17025: 2017 CABs National Accreditation Center (NAC) by accredited the general requirements for the adequacy of the test and calibration laboratoires standard for the recognition of test report. It proves the traceability to national measurement standards that are defined in the international System of Units (SI), realizing the units.

BİYONYUMLULUK TEST SORUMLUSU BİYOKİMYAGER YEŞİM ÖZKUL	VETERINER HEKIM SONER AKTEMUR	TECHNICAL UNIVERSAL VERIFICATION
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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

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- 1. GENERAL INFORMATION ABOUT THE TEST
- 2. INFORMATION ABOUT THE SPECIMEN
- 3. INFORMATION ABOUT TEST ANIMALS TAKEN IN THE TEST
- 4. INFORMATION ABOUT LABORATORY CONDITIONS
- 6. INFORMATION ABOUT THE TEST METHOD
- **8. INTRADERMAL APPLICATION**
- 7. EVALUATION
- 8. RESULTS
- 8. RECORDS
- 10. REFERENCES

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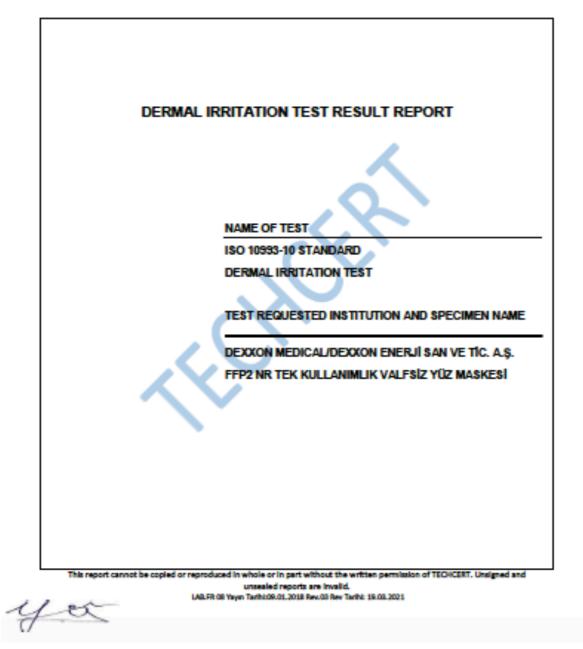
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BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY







BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

#### 1. GENERAL INFORMATION ABOUT THE TEST

Test Name and Guide	TS EN ISO 10993-10 Biological evaluation of medical devices chapter 10: Tests standard for irritation and skin sensitivity	
Test Requesting Institution	DEXXON MEDICAL/DEXXON ENERJİ SAN VE TİC. A.Ş.	
TestReport Number	KBYU0005/2021-03/BYU/1451	
TestStart Date	02.03.2021	
Test Ending Date	05.03.2021	
Test Reporting Date	22.03.2021	
Purpose	The test was intended to evaluate the potential of the sample described below to cause dermal initiant effects.	

#### 2. INFORMATION ABOUT THE SPECIMEN

Specimen Acceptance Date and Time	28.01.2021	
Specimen Recording Number	KBYU0014/2021	
Specimen Lot Number	DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR	
Name of Specimen	FFP2 NR DISPOSABLE VALVE FACE MASK	
Number of Specimen	5	
Specimen Taken Moment Receive	SOLD	
Way the Specimen Was Brought	HAND BY RECEIVE	
Information About Witness Specimen	Preserve TECHCERT laboratory for 1 year	

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## BİYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

## 3. INFORMATION ABOUT TEST ANIMALS TAKEN IN THE TEST

Species	Rabbit	
Kind	New Zealand Rabbit	
Source	Kobay DHL A.Ş.	
Gender	Male	
Weight Range	2-2,5 kg	
Age	Young Adult	
Familiarization Period	5 days	
Number of Animal Used	3 piecies	

#### 4. INFORMATION ABOUT USED CHEMICAL AND MEDIUM

Test Animais Maintenance	Chapter 2: Requirements for Animal Welfare are made in accordance with its standards.
Forage	Ad-libitum is done feeding.
Water	Water, be given ad-libitum as suitable drinkers.
Micro Maintenance Conditions	Each test animal was identified and placed in appropriate cages.
Macro Maintenance Conditions	Provides 12 hours of night and 12 hours of daytime environment; %30-70 damp and 17- 23 °C environment is provided, temperature and damp are checked instant daily.
Test Team	Tests are carried out by trained and suitably qualified people.
	Healthy, disease-free and under the supervision of a veterinarian it was selected by passing.
Test Animal Selection	

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#### BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

#### 5. INFORMATION ABOUT THE TEST METHOD

TS EN ISO 10993-10 Biological evaluation of medical devices chapter 10: According to the requirements of the test standard for irritation and skin sensitivity, the maintanence conditions of the test animals used in the test were carried out by considering ISO 10993-2 and the preparation of the specimen used in the test and the reference materials ISO-10993-12 standards.

Dermai Imitation Tests; Subsequently the skin application, the animals were observed at different time intervals and the results were evaluated.

#### **6.DERMAL APPLICATION**

Specimen; Prepared according to the "Standard surface areas and extract liquid volumes chart" in the standard of TS EN ISO 10993-12 "Specimen Preparation and Reference Materials". As a positive control; Sodium lauryl sulfate (SLS), previously known to have an irritant effect, has been determined. As a negative control; Serum Physiological, previously known to have no irritant effect.

Test and control specimen were applied to the back region of the test animais, whose weights were recorded in Table 1, topically for 4 hours to the skin in the regions and volumes indicated in Figure 1. At the end of this period, bandages were opened, samples were taken and the applied areas were marked. Test materials remaining in the area were washed with warm water. After the procedure the test zones were observed at the 1st,24th,48th and 72nd hours and the specimen were evaluated by considering the criteria in table 2. The evaluation results that should be given according to the score obtained are recorded in Table 3.

Test start date	02.03.2021
Test ending date	05.03.2021

TS EN ISO 10993-10 Biological evaluation of medical devices chapter 10: Biocompatibility test was applied according to the test standard for inflation and skin sensitivity. Animais TS EN 10993-2: 2006 Biological Evaluation of Medical Devices - Part 2: It has been prepared in accordance with the principles of Requirements for Animal Welfare. The test was carried out so as to evaluate the sensitizing potential of the specimen.

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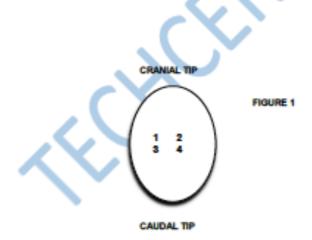
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## **BIYOUYUMLULUK TEST LABORATUVARI** BIOCOMPATIBILITY TESTING LABORATORY

Solution preparation date	28.02.2021
Solution preparation know how	<ul> <li>Chapter 12: According to specimen preparation and reference materials standard;</li> <li>X If specimen solid; "The specimen was prepared by keeping the specimen at 37°C for 72 hours according to the chart of standard surface areas and extract liquid volumes. Subsequently, it was impregnated with a 25x25 mm four-layer gauze and applied to the skin.</li> <li>If specimen liquid; directly impregnated with 25x25 mm four-layer gauze and applied to the skin.</li> <li>If specimen liquid; directly impregnated with 25x25 mm four-layer gauze and applied to the skin. Serum Physiological impregnated with 25x25 mm four-layer layer gauze was used as a control specimen</li> </ul>



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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

#### DERMAL APPLICATION

The specimen were applied as shown in Figure 1 after shaving the test animals (their weights are recorded in Table 1) one day prior to the application to provide sufficient application area (10 cm x 15 cm) in the back area. After covering the samples with 2.5 cm x 2.5 cm sterile gauze, the entire application area was wrapped with a bandage. The samples to be tested for 4 hours were applied to the area. After end of this period, bandages were opened, samples were taken and the applied areas were marked. Test materials remaining in the area were washed with warm water.

Figure 1 Zone 1: Specimen

Figure 1 Zone 2: Positive Control

Figure 1 Zone 3: Negative Control

Figure 1 Zone 4: Specimen

Dermal Application start date and time	02.03.2021 11:45
Dermal Application ending date and time	02.03.2021 15:45

After the process, the test zones were observed at the 1st, 24th, 48th and 72nd hours and samples were evaluated considering the criteria specified in Table 2. Observations 72 hours after administration were not taken into account. All erythema and edema scores were collected separately for each sample at 24, 48 and 72nd hours in each rabbit. The primary irritation score for a rabbit was calculated by dividing all scores by six. The primary irritation index for the test sample was calculated by dividing the sum of each animals primary irritation index by three. Primary irritation was also calculated for the controls. This score is subtracted from the test material score in order to obtain the test material primary irritation score. The primary irritation score was calculated as indicated above and compared with the irritation response categories indicated in Table 3.

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Test Ad/Testing Name: DERMAL IRRITASYON &	Repor Numeress/Report No	KBYU0005/2021- 03/BYU/1451	THE HE LAND BUT	
DERMAL IRRITATION		NAC-003-TL		
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# **BİYOUYUMLULUK TEST LABORATUVARI**

# BIOCOMPATIBILITY TESTING LABORATORY

## Table 1: Weight table of tested test animals

Rabbit number	1	2	3
Weight at the beginning of the test"	2,376	2,361	2,347
Weight at end of test	2,376	2,361	2,387

## \*2,2-5 kg must be

## TABLE 2: Scoring system for skin reaction

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Reaction	Primary irritation scoring
Erythema and eschar formation	
No erythems	0
Very light erythema	1
Apparent erythema	2
Ressonable enthema	3
Serious erythema (like beet) and acer formation that prevents the grading of erythema	4
Edema formation	
No edema	0
Very light edema	1
Apperent edems (moderate)	2
Moderate edems ( approximate 1 mm biosted)	3
Serious edems (Swollen more than 1 mm and apread out of the exposed alanine )	4
Total possible score for irritation	8
Other adverse changes in skin locations should be recorded and reported.	

## TABLE 3: Primary or Cumulative Instation Index Categories

Average score	Answer category
0-0,4	Negligible
0,5-1,9	ME
2-4,9	Medium
5-8	Serious

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Technical Universal Verification	TECHNICAL UNIT BELGELENDÎRME Macun Mahalleri ATB îş Mer Tek +9 E-Mail, pfofftechear	NAC		
Test Ad/Testing Name: DERMAL IRRITASYON &	Repor Numeress/Report No	KBYU0005/2021-	INCOME LANSAGE F	
DERMAL IRRITATION		03/BYU/1451	NAC-003-TL	
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\* This report ISO 17025: has be

# BİYOUYUMLULUK TEST LABORATUVARI

## BIOCOMPATIBILITY TESTING LABORATORY

## TABLE 4: Evaluation Results

Rabbit	Samples	Region	Observation (Nours)							
NO				ciy	36.11		Coema			
			1.	24.	41.	n.	1.	24.	48.	72.
	SPECIMEN	left anterior region	0	٥	0	0	0	0	٥	0
1		right back region	1	1	-	0	0	0	٥	0
	Positive Control	right anterior region	2	1	•	1	4	0	٥	0
	Negative Control	Left back region	0	0	0	0	•	0	٥	0
	SPECIMEN	left anterior region	0	0	0	0	0	0	٥	0
2		right beck region	1	1	•	0	0	0	٥	0
	Positive Control	right anterior region	2	2	1	1	1	1	٥	0
	Negative Control	Let beck region	0	L.	0	0	0	0	٥	0
	3 Positive Control	left anterior region	0	•	0	0	0	0	٥	0
3		right beck region	1	1	1	0	0	0	٥	0
-		right anterior region	1	1	1	0	0	0	٥	0
	Negative Control	Left beck region	0	0	0	0	0	0	0	0

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NAC-003-TL

DERMAL IRRITATION

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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

	TABLE 5: Average Score Value							
		Pri	mary initiation S	Primary Initiation				
	Samples	Rabbit 1	Rabbit 2	Rabbit 3				
TEST RESULT INFORMATION	SPECIMEN	0,167	0,083	0,167	0,139			
	Positive Control	0,500	0,833	0,333	0,555			
	Negative Control	0,000	0,167	0,000	880,0			
	* 1. Hours are not taken into account when calculating the primary initiation acces. The sample was found to have no dermal imitation with a score of 0,139- 0,056-0,083							

#### 7. EVALUATION

The average score was obtained by taking the average of the values obtained after the observation in four different time intervals after the test performed in accordance with TS EN ISO 10993-10 standards. Redness and edema were observed in the positive control, it was stated that there was no reaction in the test specimen and negative controls.

## 8.RESULT

Dermai Intrasyon testinin ardından eide edilen sonuçlar doğrultusunda, ISO 10993-10 belgesinde beirtien protokol ve degeriendirme kriterieri esas alindiginda DEXXON MEDICAL/DEXXON ENERJI SAN VE TIC. A.Ş firmasının, DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR lot numaralı, FFP2 NR DISPOSABLE VALVE FACE MASK numunesinin dermal irritan özeliğe sahip olmadığı tespit edilmiştir.

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Macun Mahallesi ATB İş Merkezi A Biok No: 3 Yenimahalle / ANKARA

KBYU0005/2021-

03/BYU/1451

NAC

NAC-003-TL

Tel: +90 312 231 82 02 & E-Mail. info@techcert.com.ir & www.techcert.com.ir

Test Ad/Testing Name: DERMAL IRRITASYON & Rapor Numarasi/Report No

DERMAL IRRITATION

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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

#### 9.RECORDS

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All crude data, forms and a copy of the final report related to the test performed are stored in TECHCERT archive files.

#### 10.REFERENCES

- Guide For The Care And Use Of Laboratory Animals Eighth Edition National Research Council
  of The National Academies
- TS EN ISO 10993-1 Biological evaluation of medical devices Part 1: Evaluation and testing in a risk management process
- TS EN ISO 10993-2 Biological evaluation of medical devices Part 2: Regularements for animal weffare
- TS EN ISO 10993-10 Biological evaluation of medical devices Part 10: Tests for initiation and skin sensitivity
- TS EN ISO 10993-12 Biological evaluation of medical devices Part 12: Sample preparation and reference materials

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Technical Universal Verification	TECHNICAL UNI BELGELENDÎRME Macun Mahallesi ATB İş Mer Tel: +9 E-Mall. Info@techcer	NAC		
Test Adi/Testing Name: SENSITIZASYON &	Rapor Numarasi/Report No	KBYU0005/2021-	THE TAKE LABORATORY INVESTIGATION	
SENSITIZATION		03/BYU/1450	NAC-003-TL	
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## BİYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

FIRMA ADI/COMPANY NAME:	DEXXON MEDICAL/DEXXON ENERJÎ SAN VE TÎC. A.Ş.
ADRES/ADDRESS:	İSTANBUL VİZYON PARK OFİS BLOKLARI YENİBOSNA MERKEZ MAH. 29 EKİM CAD. NO:3 PLAZA 1 K:8 NO:84 BAHÇELİEVLER – İSTANBUL - TURKEY
TESTIN ADI/TESTING NAME:	SENSITIZASYON & SENSITIZATION
TEST STANDARDI/TEST STANDARD:	TS EN ISO 10993-10: 2014-02
TİCARİ MARKA (VARSA)/COMMERCIAL BRAND (IF YOU HAVE):	-
ÜRÜN ADI/PRODUCT NAME:	FFP2 NR DISPOSABLE VALVE FACE MASK
NUMUNE KAYIT NO/SAMPLE REGISTRATION NO:	KBYU0014/2021
NUMUNE LOT NUMARASI/LOT NUMBER OF SPECIMENS:	DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR
NUMUNE SAYISI/NUMBER OF SPECIMEN:	6
TEST BAŞLAMA TARİHİ/TEST START DATE:	02.02.2021
TEST BİTİŞ TARİHİ/TEST END DATE:	02.03.2021
RAPOR TARIHI/REPORT DATE:	22.03.2021
KULLANILAN CİHAZLAR/USED DEVICES:	-
EA TANIMLAMASI/EA DESCRIPTION:	Asia Pasific Accreditation Association (APAC) ISO/IEC 17025: 2017 CABs National Accreditation Center (NAC) by accredited the general requirements for the adequacy of the test and calibration laboratoires standard for the recognition of test report. It proves the traceability to national measurement standards that are defined in the International System of Units [SI], realizing the units.

BİYOUYUMLULUK TEST SORUMLUSU BİYOKİMYAGER YEŞİM ÖZKUL	TECHNICAL UNIVERSAL VERIFICATION

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## BİYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

#### CONTENTS

- 1. INFORMATION ABOUT THE TEST
- 2. INFORMATION ABOUT THE SPECIMEN
- **3. INFORMATION ABOUT TEST ANIMALS TAKEN IN THE TEST**
- 4. INFORMATION ABOUT LABORATORY CONDITIONS
- 6. INFORMATION ABOUT THE TEST METHOD

6.TEST

- 7. INTRA \$KIN INDUCING PHASE
- 8. SURFACE (TOPICAL) INDUCING PHASE
- **8.STIMULATION PHASE**
- 10. RE\$ULT
- 11. RECORDS
- 12. REFERENCES

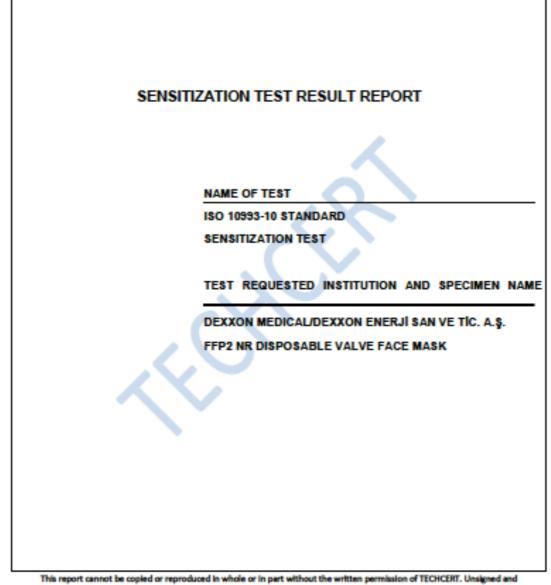
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## **BİYOUYUMLULUK TEST LABORATUVARI** BIOCOMPATIBILITY TESTING LABORATORY

Test Name and Guide Test Requesting Institution		TS EN ISO 10993-10:2014 Biological evaluation of medical devices Chapter 10: Standard for test for irritation and skin sensitivity DEXXON MEDICAL/DEXXON ENERJI SAN VE TIC. A.Ş.			
Test Report Number		KBYU0005/2021-03/BYU/1450			
Test Start Date	02.02.2021				
Test Ending Date		02.03.2021			
Test Reporting Date		22.03.2021			
Purpose	The tes below	t is intended to assess the sensitizing potential of the specimen described			

#### 1.GENERAL INFORMATION ABOUT THE TEST

#### 2.INFORMATION ABOUT THE SPECIMEN

Sample Acceptance Date and Time	28.01.2021
Sample Registration Number	KBYU0014/2021
Sample Lot Number	DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR
Sample Name	FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI
Number of Samples	6
Status at the Time of Sampling	KATI/ SOLID
Delivery Method of the Sample	HAND BY RECEIVE
Witness Sample Information	Preserve TECHCERT laboratory for 1 year

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**BİYOUYUMLULUK TEST LABORATUVARI** 

BIOCOMPATIBILITY TESTING LABORATORY

#### **3.INFORMATION ABOUT THE TEST ANIMALS TAKEN IN THE TEST**

Kind	Guinea Pig
Family	Dunkin Hartley
Source	Kobay DHL A.Ş.
Gender	Male
Weight Source	400-500 gr
Age	10-12 week
Familiarization Period	5 days
Number of Animals Used	15 pieces

#### 4. INFORMATION ABOUT LABORATORY CONDITIONS

Test Animal Maintanence	The animal used in the tests are made in accordance with the
	Biological Evaluation of Medical Devices-Part 2 Requirements
	for Animal Welfare standards.
Forage	Ad-libitum is done feeding.
Water	Water, be given ad-libitum as suitable drinkers.
	Each test animal was identified and placed in appropriate
Micro Maintanence Conditions	cages.
Macro Maintanence Conditions	Provides 12 hours of night and 12 hours of daytime
	environment; %30-70 damp and 23 °C environment is
	provided, temperature and damp are checked instant daily.
Test Team	Tests are carried out by trained and suitably qualified people
Selection of Test Animais	Healthy, disease-free and under the supervision of a
	veterinarian it was selected by passing.

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### 5. INFORMATION ABOUT THE TEST METHOD

Sensitization Tests; TS EN ISO 10993-10 Biological Evaluation of Medical Devices-Chapter 10: According to the requirements of the test standard for irritation and skin sensitivity, the maintanence conditions of the test animals used in the test were carried out by considering ISO 10993-2 and the preparation of the specimen used in the test and the reference materials ISO-10993-12 standards. Sensitization Tests; Intradermal Induction Phase, Superfical Induction Phase and subsequently the Stimulation Phase, observing the animals and evaluating finished the results.

#### 6.TEST

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Test start date	02.02.2021
Test ending date	02.03.2021
according to the test standa Medical Devices - Chapt	ological Evaluation of Medical Devices – Chapter 10: Biocompatibility test was applied rd for irritation and skin sensitivity. Animals TS EN 10993-2:2006 Biological Evaluation of er 2: It has been prepared in accordance with the principles of Requirements for Animal it was carried out in order to evaluate the sensitizing potential of the specimen
Solution preparation date	31.01.2021 - 02.02.2021
Solution preparation know how	Chapter 12: According to specimen preparation and reference materials standard; If specimen solid; "The specimen was prepared by keeping the specimen at 37°C for 72 hours according to the chart of standard surface areas and extract liquid volumes. Subsequently, it was impregnated with a 25x25 mm four-layer gauze and applied to the skin. If specimen liquid; directly impregnated with 25x25 mm four- layer gauze and applied to the skin. Serum Physiological impregnated with 25x25 mm four-layer gauze was used as a control specimen.

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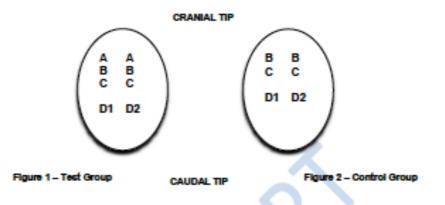


Table 1: Weight table at the end of the test belonging to the test animals

TEST GROUP Guinea pig no	1	2	3	•	•	•	7	8	•	10
Weights at the begenning of the test*	487	458	472	469	455	477	433	441	452	473
Weights at the end of the test	499	481	488	484	484	608	483	473	483	607
CONTROL GROUP Guinea pig no			:	2	:	,		•		
Weights at the begenning of the test*	4	58	4	50	4	83	4	88	4	45
Weights at the end of the test	483		4	78	4	82	4	84	4	78

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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

Table 2: Magnusson and Kilgman rating scale

Patch Test Reaction	Rating Scale
No Visible Change	٥
Discrete or Patchy orthoma	1
Moderate or Adjacent Erythema	2
Apparent	3
Serious Erythems or Swelling	4

Table 3: Results obtained in 34 and 48 hours of test and control groups based on the Magnusson and Kigman rating scale

<u> </u>							
	GUINEA	ZONE	MAGNUSSON AND KLIGMAN RATING ERYTHEMA / EDEMA				
	PIG NO		EVALUATION HOUR				
			24 <sup>th</sup> HOURS	48™ HOURS			
		A	3	3			
		8	0	1			
	1	c	0	1			
		D1	1	0			
		D2	•	0			
		A	2	3			
		В	1	1			
2	2	c	1	1			
TEST GROUP		D1	1	0			
1ES		D2	0	0			
		*	2	2			
		в	0	0			
	3	c	0	1			
		D1	1	0			
		D2	1	0			
	4	A	4	2			
		в	1	0			

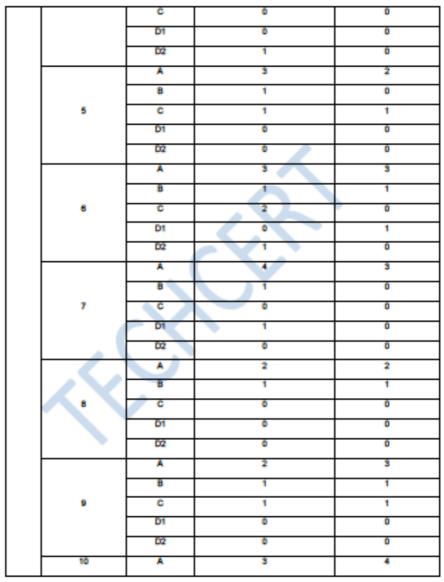
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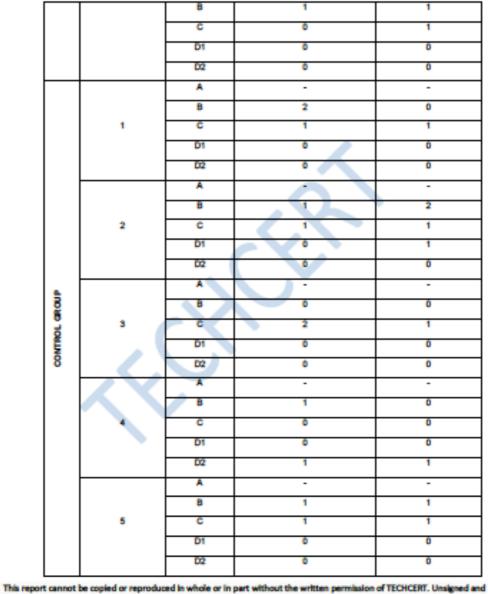
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## BIYOUYUMLULUK TEST LABORATUVARI BIOCOMPATIBILITY TESTING LABORATORY

Table 4: Group-based average of observed results

Groupe	Average Results
Test Group	0,88
Control Group	0,50

#### 7. INTRA SKIN INDUCING PHASE

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Intradermal applications in the regions and volumes indicated in figures 1 and 2 were applied to guinea pigs in the test and control groups.

1					
	INTRADERMAL INDUCING PHASE				
	0.1 ml intradermal applications were made with the below contents.				
TEST GROUP:					
Figure 1 Region A: FCA	at 50:50 volume at the rate of (Freund's Complete Adjuvant) and Saline Solution.				
Figure 1 Region B: Spe	cimen extract (undiluted extract).				
Figure 1 Region C: Mixt	ures of materials applied in regions A and B in a 50:50 volume at the rate of.				
Figure 1 Region D1 ve 0	D2: Topical application areas.				
KONTROL GRUBU:					
Figure 2 Region A: -	Figure 2 Region A: -				
Figure 2 Region B: Sel	ne Solution				
Figure 2 Region C: FCA	at 50:50 volume at the rate of (Freund's Complete Adjuvant) and Saline Solution.				
-	Figure 2 Region D1 ve D2: Topical application areas.				
Intre-Skin Induction Start Date	02.02.2021				
Intra-Skin Induction End Date	09.02.2021				

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#### 8. SURFACE (TOPICAL) INDUCING PHASE

On the 7th day after the completion of the intradermal induction phase; Superficial application has been made to the areas specified in Figures 1 and 2. The area is covered with gauze and all application areas are wrapped with an elastic bandage. The bandage and patches were removed after 48 hours.

	SURFACE (TOPICAL) INDUCING PHASE
	On the 7th day after the completion of the intradermal induction phase;
The area is covered w concentration determin CONTROL GROUP; ()	n is made to the intrascepular area (Figure 1-D1) with 8 square centimetre absorbent gauze to the TEST GROUP. Ith gauze, all application areas are wrapped with an elastic bandage. In the Intrademai Induction Phase, the red in Test Group Zone B is used. Figure 2-D1) saline solution is used only. The area is covered with gauze, all application areas are wrapped with andages and patches removed after 48 hours.
Superficial Induction Phase start date	09.02.2021
Superficial Induction Phase end date	23.02.2021

#### 9.STIMULATION PHASE

On the 14th day after the completion of the surface induction phase; Superficial application has been made to the areas specified in Figures 1 and 2. The area is covered with gauze and all application areas are wrapped with an elastic bandage. The bandage and patches were removed after 48 hours.

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STIMULATION PHASE

On the 14th day after the completion of the surface induction phase;

TEST GROUP; Superficial treatment is applied to untreated areas of experimental animals (Figure 1 D2). The area is covered with gauze, all application areas are wrapped with an elastic bandage. In the Intradermal Induction Phase, the concentration determined in Test Group Zone C is used.

CONTROL GROUP; (Figure2- D2) saline solution is used only. The area is covered with gauze, all application areas are wrapped with an elastic bandage. Bandages and patches removed after 48 hours.

Start Date	23.02.2021
Stimulation Phase End Date	02.03.2021

#### 10.RESULT

In line with the results obtained after the sensitization test, based on the protocol and evaluation criteria specified in the ISO 10993-10 document, DEXXON MEDICAL/DEXXON ENERLI SAN VE TIC. A.Ş. It was determined that the FFP2 NR DISPOSABLE VALVE FACE MASK specimen with -- DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR lot number was not sensitizing.

#### 11.RECORDS

All crude data, forms and a copy of the final report related to the test performed are stored in TECHCERT archive files.

#### 12.REFERENCES

- Guide For The Care And Use Of Laboratory Animals Eighth Edition National Research Council
  of The National Academies
- TS EN ISO 10993-1 Biological evaluation of medical devices Part 1: Evaluation and testing in a risk management process
- TS EN ISO 10993-2 Biological evaluation of medical devices Part 2: Requirements for animal weifare
- TS EN ISO 10993-10 Biological evaluation of medical devices Part 10: Tests for irritation and skin sensitivity
- TS EN ISO 10993-12 Biological evaluation of medical devices Part 12: Sample preparation and reference materials

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# **BIOCOMPABILITY TESTS :** DERMAL IRRITATION TEST ANALYSIS

KC BAY	SAMPLE NO: KBYU0014/2021					
	KOBAY DENEY HAYVANLARI LABORATUVARI SAN. VE TÎC. A.Ş. DERMAL IRRITATION TEST ANALYSIS FORM					
Test Name	TS EN ISO 10993-10 Biological evaluation of medical devices Chapter 10: Standard of experiments for initiation and skin sensibility					
Test Start Date	02.03.2021					
Test End Date	05.03.2021					
initation and skin sensitivity.	Biocompatibility test has been applied according to TS EN ISO 10993-10 Biological evaluation of medical devices - Part 10: Experiments for inflation and skin sensitivity. Animals have been prepared in accordance with the principles of TS EN 10993-2: 2006 Biological Evaluation of Medical Devices - Part 2: Requirements for Animal Welfare. The test was carried out in order to evaluate the sensitizing potential of the sample.					
Solution Preparation Date	28.02.2021					
Prepare a solution technical knowledge	Chapter 12: According to the standard of sample preparation and reference materials; • If the sample is solid; "According to the standard surface areas and extract liquid volumes chart, the sample was prepared by holding for 37°C for 72 hours. Then 25x25 mm was absorbed into four-layer gauze and applied to the skin • If the sample is liquid; directly absorbed into 25x25 mm four-layer gauze and applied to the skin, 25x25 mm four-layer gauze-absorbed Saline was used as a control sample					
	1 2 3 4 Figure 1					
CAUDAL END DERMAL APPLICATION The samples were applied as shown in Figure 1 star shaving the experimental animals (their weights are recorded in Table 1) one day before the application to provide sufficient application area (10 cm x 15 cm) in the back area. After covering the samples with 2.5 cm x 2.5 cm startle gauge, the entire application area was wrapped with a bandage. The samples to be tested for 4 hours were applied to the area. After end of this period, bandages were opened, samples were taken and the applied areas were marked. Test materials remaining in the area were washed with warm water. Figure 1 Zone 1: Sample Figure 1 Zone 2: Positive Control Figure 1 Zone 3: Negative Kontrol Figure 1 Zone 3: Negative Kontrol Figure 1 Zone 3: Sample						
Dermal Application start date and time	02.03.2021 11:45					
Dermal Application end date and time	02.03.2021 15:45					
KBYY_JF_3H_30 / R00 1/3						

Etikinga Süre, No : 4j6s7k7i/S8i7deae039/ Bu beige, güvenil elektronik imza ile imzalarmıştır.



#### KC BAY SAMPLE NO: KBYU0014/2021 After the process, the test zones were observed at the 1st, 24th, 48th and 72nd hours and samples were evaluated considering the oriteria specified in Table 2. Observations 72 hours after administration were not taken into account. All entities and edems access were collected separately for each sample at 24, 48 and 72nd hours in each mibblt. The primary imitation score for a rabbit was calculated by dividing all access by six. The primary imitation index for the test sample was calculated by dividing the sum of each anima's primary imitation index by three. Primary imitation was also calculated for the controls. This acces is subtracted from the test material score in order to obtain the test material primary imitation acces. The primary imitation access was calculated as indicated above and compared with the imitation response categories indicated in Table 3. Table 1: Weight table of experimental animals taken to the test 1 2 3 Rabbit No 2,376 2361 2347 Weights at Test Starf" 2,376 2,361 2,367 Weights at The End of the Test 'Must be between 2-2.5 kgs. Table 2: Score system for skin reaction Reaction Primary Initiation Score Erythema and exchar formation No erythema 0 Very light erythems (barely visible) Pronounced erythema Modemia erythema 3 Between severe erythems (beeboot red) and eacher formation that prevents 4 erythems from grading Edems formation No erythema 0 Very light erythems Prominent edems (marked edems edges to the area) 2 Moderate edems (about 1 mm raised) 3 4 Severe edems (swolien more than 1 mm and spread beyond the exposed area) Total possible score for irritation 8 Other adverse changes in skin locations should be recorded and reported. Table 3: Primary or Cumulative Irritation Index Categories Average Score Answer Category 0-0,4 Negligible 0.5-1.9 Light 2 - 4.9Moderate 5-8 Severe KBY\_F\_34\_10 / R00

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K	C	BAY	dorahara							,		MPLE 014/2				
					Tab	e 4: Ev	duation Rea	ulta						7		
	Rabbit No.	Samples		Samples				Zon		Observation (Hrs.) Rash Edema						
													1			
	$\vdash$			Left Front An		0	24.	40.	72.	0	24.	48.	0	1		
1		SAMPLE		Right Beck A		1	1	1	0	0	0	0	0	1		
1	1	Positive C	ontrol	Right Front A	inee .	2	1	1	1	1	0	0	0	1		
1		Negative	Control	Left Back An		0	0	0	0	0	0	0	0	1		
1				Left Front An		0	0	0	0	0	0	0	0	1		
	-	SAMPLE		Right Back A		1	1	0	0	0	0	0	0	1		
	2	Positive C		Right Front A		2	2	1	1	1	1	0	0	-		
		Negative	Control	Left Beck An	•	0	1	0	0	0	0	٥	0			
		SAMPLE		Left Front An		0	0	0	0	0	0	0	0	]		
1	3			Right Back A		1	1	1	0	0	0	0	0	]		
	-	Positive C Negative (		Right Front A Left Back An		1	1	1	0	0	0	0	0	4		
$\vdash$	Table 5: Average Score Value															
			5	SAMPLES		Prima Rabbit 1		Rabbit 2 Rabbit		Primary Infitation Inde		index				
TES	т		SAME	LE	0,163	,	0,063	(	0,167	,		0,139	0.139			
RE	BULT			ve Control 0,500		-	0,833	-	0,333	0,558						
INF	ORMATI	DN		tive Control	0,00	_	0,167	_	1,000	0,556						
	* 1* Hours are not considered when calculating the primary initiation accre. It was determined that the sample did not have dermal initiation feature with an initiation score of 0.139-0.056 = 0.083.															
SOGAU						BYU 3										
KBY,	xary_F_3K_sa / kao 3/3															





## KOBAY DENEY HAYVANLARILABORATUARI SAN. VE TİC. A.Ş. DERMAL IRRITATION TEST ANALYSIS FORM

Test Report Number: KBYU0014/2021-602.000.0042

#### 4. INFORMATION ABOUT LABORATORY CONDITIONS

	•		
Care of Experimental Animals	The animals used in the experiments are made in accordance with the Biological Evaluation of Medical Devices-Part 2: Requirements for Animal Weifare standards.		
Feed	Ad-lbitum feeding is performed.		
Water	Water is given in suitable waters as ad-libitum.		
Micro Care Conditions	Each experimental animal was identified and placed in appropriate cages.		
Macro Care Conditions	The environment is provided for 12 hours at night and 12 hours during the day; 30-70% humidity and 17-23 °C environment are provided. Temperature and humidity are instantly controlled daily.		
TestStudy Team	Tests are carried out by trained and qualified persons.		
Experimental Animal Selection	They were selected as healthy, without any disease and under the supervision of a veterinarian.		

#### 5. INFORMATION ABOUT THE TEST METHOD

Dermal irritation tests; TS EN ISO 10993-10 Biological evaluation of medical devices - Part 10: According to the requirements of the experiments standard for irritation and skin sensitivity, the maintenance conditions of the test animals used in the test, ISO 10993-2 and the preparation of the samples used in the test and the reference materials taking into account the ISO-10993-12 standards has been carried out.

Dermal irritation Tests; Following the skin application, the animals were observed at different time intervals and the results were evaluated.

#### 8. DERMAL APPLICATION

Samples are prepared according to the "Standard surface areas and extract liquid volumes chart" in the standard of TS EN ISO 10993-12 "Sample Preparation and Reference Materials". (KBY\_F\_24\_10) As Positive Control; Sodium lauryl sulfate (SLS), previously known to have an irritant effect, has been determined. As Negative Control; Saline Solution, previously known to have no irritant effect, was determined. The test and control samples of the test animals, whose weights were recorded in Table 1 in KBY\_F\_24\_10, were topically applied to the skin in the regions and volumes indicated in Figure 1 in KBY\_F\_24\_10 for 4 hours. At the end of this period, bandages were opened, samples were taken, and the applied areas were marked. Test materials remaining in the area were washed with warm water. After the procedure, the test zones were observed at the 1st, 24th, 48th and 72nd hours and samples were evaluated by considering the criteria in Table 2 in KBY\_F\_24\_10. The evaluation results that should be given according to the points obtained are recorded in Table 2 in KBY\_F\_24\_10.

KBY\_R\_24\_10/R00

3 In KBY\_F\_24\_10.

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### KOBAY DENEY HAYVANLARILABORATUARI SAN. VE TÍC. A.Ş. DERMAL IRRITATIONTEST ANALYSISFORM

Test Report Number: KBYU0014/2021-602.000.0042

## 7. EVALUATION

The average score was obtained by taking the average of the values obtained after the observation in four different time intervals after the experiment performed in accordance with TS EN ISO 10993-10 standards. Redness and edema were observed in the positive control, it was stated that there was no reaction in the test sample and negative controls. Obtained (evaluation criteria and records are included in Tables 4 and 5 in KBY\_F\_24\_10).

#### 8. RESULT

In line with the results obtained after the dermal irritation test, based on the protocol and evaluation criteria specified in the ISO 10993-10 document, it was determined that the received\_ institution, lot number lot number, sample\_name sample did not have dermal irritant properties.

#### RECORD

All raw data, forms (KBY\_F\_24\_10) and a copy of the final report related to the test are kept in the archive files of Kobay DHL A.S.

#### 10. REFERENCE

- Guide For The Care And Use Of Laboratory Animals Eighth Edition National Research Council of The National Academies
- TS EN ISO 10993-1 Biological evaluation of medical devices Part 1: Evaluation and testing in a risk management process
- TS EN ISO 10993-2 Biological evaluation of medical devices Part 2: Requirements for animal weifare
- TS EN ISO 10993-10 Biological evaluation of medical devices Part 10: Tests for irritation and skin sensitivity
   TS EN ISO 10993-12 Biological evaluation of medical devices Part 12: Sample preparation and reference materials

11. SIGNATURES OF THE RESPONSIBLE PERFORMANCE OF THE TEST

BYU 3	BYU 5
🔗 e- signed	🔗 e- signed

KBY\_R\_24\_10/R00

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## **BIOCOMPABILITY TESTS: SENSITIZATION TESR RESULT REPORT**

KC BAY



	Y HAYVANLARILABORATUARI SAN. VE TİC. A.Ş. NSITIZATION TEST RESULT REPORT			
	TestReport Number: KBYU0014/2021-602.000.001			
1. GENERAL INFORMATION ABOUT THE TEST				
TestName and Guide	TS EN ISO 10993-10: 2014 Biological evaluation of medical devices Part 10: Tests standard for irritation and skin sensitivity			
Requesting Institution	DEXXON MEDICAL/DEXXON ENERUI SAN VE TIC. A.Ş			
TestReport Number	KBYU0014/2021-602.000.0011			
TestStart Date	02.02.2021			
TestEnd Date	02.03.2021			
TestRaporlandirma Tarihi	02.03.2021			
Information About Test Responsible	The tests were carried out in the laboratory of KOBAY DHL A.§ by the persons whose full names were specified in the ethics committee approval with the ethics board dated 02.01.2020 and ethical board number 525.			
Objective	The test is intended to assess the sensitizing potential of the sample described below.			
2. INFORMATION ABOUT T Sample Acceptance Date - Time				
	HE SAMPLE			
Sample Acceptance Date - Time	HE SAMPLE 28.01.2021			
Sample Acceptance Date - Time Sample Registration Number	HE SAMPLE 28.01.2021 KBYU0014/2021			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID KARGO / CARGO			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFM04 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID KARGO / CARGO It is stored in the laboratory of KOBAY DHL A.Ş for 1 year.			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID KARGO / CARGO It is stored in the laboratory of KOBAY DHL A.Ş for 1 year. EXPERIMENTAL ANIMALS TAKEN IN THE TEST			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E Type	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID KARGO / CARGO It is stored in the laboratory of KOBAY DHL A.§ for 1 year. EXPERIMENTAL ANIMALS TAKEN IN THE TEST Guinea Pig			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E Type Strain	HE SAMPLE  28.01.2021  KBYU0014/2021  DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR  FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI  6  KATI / SOLID  KARGO / CARGO  It is stored in the laboratory of KOBAY DHL A.§ for 1 year.  EXPERIMENTAL ANIMALS TAKEN IN THE TEST  Guinea Pig Dunkin Hartiey			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E Type Strain Source	HE SAMPLE  28.01.2021  KBYU0014/2021  DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR  FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI  6  KATI / SOLID  KARGO / CARGO  It is stored in the laboratory of KOBAY DHL A.§ for 1 year.  EXPERIMENTAL ANIMALS TAKEN IN THE TEST  Guinea Pig  Dunkin Hartiey  Kobay DHL A.§.			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E Type Strain Source Gender	HE SAMPLE  28.01.2021  KBYU0014/2021  DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR  FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI  6  KATI / SOLID  KARGO / CARGO  It is stored in the laboratory of KOBAY DHL A.Ş for 1 year.  EXPERIMENTAL ANIMALS TAKEN IN THE TEST  Guinea Pig  Dunkin Hartiey  Kobay DHL A.Ş. Male			
Sample Acceptance Date - Time Sample Registination Number Sample Lot Number Sample Lot Number Sample Name Number of Samples Status at the Time of Sampling Delivery Method of the Sample Sample Production Date Sample Expiry Date Witness Sample Information 3. INFORMATION ABOUT E Type Strain Source Gender Weight Range	HE SAMPLE 28.01.2021 KBYU0014/2021 DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI 6 KATI / SOLID KARGO / CARGO It is stored in the laboratory of KOBAY DHL A.Ş for 1 year. EXPERIMENTAL ANIMALS TAKEN IN THE TEST Guinea Pig Dunkin Hartiey Kobay DHL A.Ş. Male 400-500 gr			

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## KOBAY DENEY HAYVANLARILABORATUARI SAN. VE TIC. A.Ş. SENSITIZATION TEST RESULT REPORT

	TestReport Number: KBYU0014/2021-602.000.0011			
4. INFORMATION ABOUT THE TEST METHOD				
Care of Experimental Animals	The animals used in the experiments are made in accordance with the Biological Evaluation of Medical Devices-Part 2: Requirements for Animal Weifare standards.			
Feed	Ad-libitum feeding is performed.			
Wate	Water is given in suitable waters as ad-libitum.			
Micro Care Conditions	Each experimental animal is identified and placed in the appropriate cases			
Macro Care Conditions	The environment is provided for 12 hours at night and 12 hours during the day; 30-70% humidity and 22-24 °C environment are provided. Temperature and humidity are instantly controlled daily.			
TestStudy Team	Tests are carried out by trained and suitably qualified people.			
Experimental Animal Selection	They were selected as healthy, without any disease and under the supervision of a veterinarian.			

#### 5. INFORMATION ABOUT THE TEST METHOD

Sensitization Tests; TS EN ISO 10993-10 Biological evaluation of medical devices - Part 10: According to the requirements of the experiments standard for irritation and skin sensitivity, the maintenance conditions of the test animals used in the test, ISO 10993-2 and the preparation of the samples used in the test and the reference materials taking into account the ISO-10993-12 standards has been carried out.

Sensitization Tests; Following the Transcutaneous Induction Phase, Superficial Induction Phase and Stimulation Phase, the animals were observed, and the results were evaluated.

#### 8. Intra-Skin Induction Phase

Intradermal applications in the regions and volumes specified in Figures 1 and 2 in KBY\_F\_24\_02 were applied to guinea pigs in test and control groups.

7. Superficial (Topical) Induction Phase

On the 7th day after the completion of the intradermal induction phase; in KBY\_F\_24\_02, supericial application has been made to the regions specified in Figures 1 and 2. The area is covered with gauze and all application areas are wrapped with an elastic bandage. The dressing and patches were removed after 48 hours.

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#### KOBAY DENEY HAYVANLARILABORATUARI SAN. VE TÍC. A.Ş. SENSITIZATION TEST RESULT REPORT

TestReport Number: KBYU0014/2021-602.000.0011

#### 8. STIMULATION PHASE

On the 14th day after the completion of the superficial induction phase; in KBY\_F\_24\_02, superficial application has been made to the regions specified in Figures 1 and 2. The area is covered with gauze and all application areas are wrapped with an elastic bandage. The dressing and patches were removed after 48 hours.

9. EVALUATION

Stimulation sites on the skin of animals in the test and control groups are observed 24 hours and 48 hours after the completion of the stimulation phase. Observations are carried out under full spectrum lighting. Skin reactions for Erythema and Edema are completed and graded according to the Magnusson and Kiigman grading at each time interval for each stimulation site. The weight values of guinea pigs have been recorded. (evaluation criteria and records are in KBY\_F\_24\_02).

10. RESULT

In line with the results obtained after the sensitization test, based on the protocol and evaluation criteria specified in the ISO 10993-10 document, it was determined that the DEXXON MEDICAL/DEXXON ENERUI SAN VE TIC. A.Ş., DEXXON MEDICAL DXNMD-NRFMO4 FFP2 NR, FFP2 NR TEK KULLANIMLIK VALFSIZ YÜZ MASKESI sample did not have sensitizing properties.

11. RECORD

All raw data, forms (KBY\_F\_24\_02) and a copy of the final report related to the test are kept in the archive files of Kobay DHL A.Ş.

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KOBAY DENEY HAYVANLARILABORATUARI SAN. VE TIC. A.Ş. SENSITIZATION TEST RESULT REPORT					
	TestReport Number: KBYU0014/2021-602.000.0011				
12. REFERENCE					
<ul> <li>Guide For The Care And Use Of Laboratory Animals Eighth Edition National Research Council of The National Academies</li> <li>TS EN ISO 10993-1 Biological evaluation of medical devices - Part 1: Evaluation and testing in a risk management process</li> <li>TS EN ISO 10993-2 Biological evaluation of medical devices - Part 2: Requirements for animal weifare</li> <li>TS EN ISO 10993-10 Biological evaluation of medical devices - Part 10: Tests for imitation and skin sensitivity</li> <li>TS EN ISO 10993-12 Biological evaluation of medical devices - Part 10: Tests for imitation and skin sensitivity</li> <li>TS EN ISO 10993-12 Biological evaluation of medical devices - Part 12: Sample preparation and reference materials</li> </ul>					
13. SIGNATURES OF THOSE RESPONSIBLE FOR PERFORMING THE TEST					
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R e- signed					

KBY\_R\_24\_02/R00

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