

**CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED  
PRODUCT CHECKS AT RANDOM INTERVALS (MODULE C2)**

**MODÜL C2 - ÜRETİMİN DÂHİLÎ KONTROLÜ VE ÜRÜNÜN RASTGELE  
ARALIKLARLA DENETİMLİ MUAYENESİNE DAYALI TİPE UYGUNLUK**

**Belge No / Certificate No** : 199-21-01-02  
**Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /  
Certification Date / Certificate Validity Date** : 01.09.2022-01.09.2023  
**Belge Geçerlilik Tarihi / Document Validity Period** : 1 yıl / 1 year  
**Firma Unvanı ve Adresi /  
Company Name and Address** : RAİFOĞULLARI TEKSTİL GIDA MADDELERİ  
SAN. VE TİC. A.Ş.  
Pınarkent Mah. Cafer Sadık Abaloğlu (Şahinler)  
Blv. No: 21 İç Kapı No: 101 Pamukkale/ DENİZLİ

**Marka / Model / Brand / Model** : SENSOMASK  
**Direktifi / Directive** : 2016/425 REGULATION  
**Modülü/Kategori / Module / Category** : C2 MODÜLÜ/ KATEGORİ III  
MODULE C2 / CATEGORY III

**Teknik Değerlendirme Rapor No/  
Technical Evaluation Report No** : 199-21-01-02

**Ürün Tipi / Product Type:**  
- EN 149:2001+ A1:2009 Solunumla ilgili koruyucu cihazlar - Parçacıklara karşı koruma amaçlı filtreli  
yarım maskeler/ Respiratory protective devices - Filtering half masks to protect against particles

**Ürünün Malzeme Bilgisi / Product Material Information:** SENSOMASK model ürünleri kumaş, elastik  
kayış, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir./ SENSOMASK model products are  
manufactured using fabric, elastic strap, nose clip, filter layer.

**Volkan AKIN**  
01.09.2022

**Karar Verici / Approver**



**Okan AKEL**  
01.09.2022

**Şirket Müdürü / General manager**



Report No : 199-21-01-02

Report Date : 01.09.2022

Application No : 199-21-01-02

**1. COMPANY INFORMATION:**

RAİFOĞULLARI TEKSTİL GIDA MADDELERİ SAN. VE TİC. A.Ş.

Pınarkent Mah. Cafer Sadık Abalıoğlu (Şahinler) Blv. No: 21 İç Kapı No: 101 Pamukkale/ DENİZLİ

Tel: 0 258 212 13 33

Mail: faruk@raifogullaritekstil.com

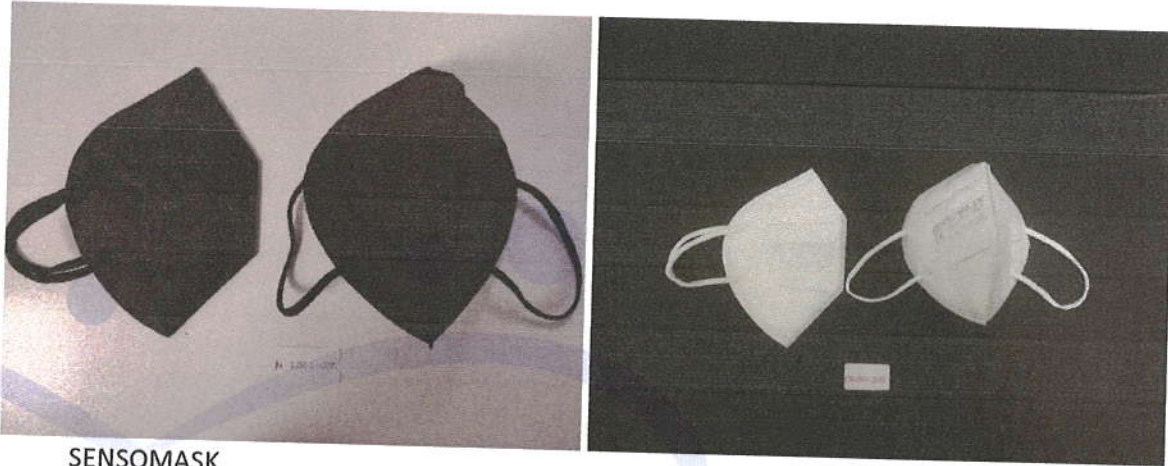
**2. PPE INFORMATION:**

Disposable and non-sterile half mask made of particulate protection filter material.

**3. PPE TYPE IDENTIFICATION**

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

**4. PPE PICTURES**



SENSOMASK

**5. PPE DIMENSIONS:**

SENSOMASK model has been found to be produced using standard sizes.

**6. PPE PRODUCT MATERIAL INFORMATION:**

The mask is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

**7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.

**8. ANALYSIS EVALUATION AND MARKING:**

EN 149:2001 +A1:2009

**CHECK AT RANDOM INTERVALS  
(MODULE C2, ANNEX VII) (199-21-01-02)**

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.3 Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Banned Azo Dyes	< 30 mg/kg				< 5 mg/kg	-	PASS
Part 7.4 Packaging	Particle filtering half mask shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.				Appropriate	-	PASS
Part 7.5 Material	When conditioned in accordance 8.3.1 & 8.3.2 the particle filter half mask shall not collapse.				Appropriate	-	PASS
Part 7.6 Cleaning and disinfecting	After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.				Not applicable	-	Not applicable
Part 7.7 Practical performance	No negative comments should be made by the test subject regarding any of the criteria evaluated.				Appropriate	-	PASS
Part 7.8 Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edge or burrs.				Appropriate	-	PASS

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.1 Total inward leakage	At least 46 out of the 50 individual exercise result	≤25	≤11	≤5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	≤22	≤8	≤2	See the table below	FFP2	PASS

**Total Inward Leakage (%)**

	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	7,0	7,4	7,2	8,0	6,6	7,2
Subject 2 (As received)	7,3	6,8	7,8	6,5	7,8	7,2
Subject 3 (As received)	7,0	6,5	7,6	6,5	8,5	7,2
Subject 4 (As received)	8,1	8,5	6,4	4,9	6,6	6,9
Subject 5 (As received)	8,3	5,5	7,6	5,3	7,8	6,9
Subject 6 (After temperature conditioning)	7,7	8,1	5,3	7,2	7,0	7,1
Subject 7 (After temperature conditioning)	7,9	8,7	7,5	7,7	7,4	7,8
Subject 8 (After temperature conditioning)	7,2	7,5	8,7	7,6	8,5	7,9

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 (MODULE C2, ANNEX VII) (199-21-01-02)**

Subject 9 (After temperature conditioning)	7,1	7,3	7,2	7,7	9,1	7,7
Subject 10 (After temperature conditioning)	7,9	7,1	6,9	9,2	7,2	7,7

**Subject facial dimensions**

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	133	132	132	65
2	125	144	116	67
3	126	135	124	75
4	123	133	134	74
5	117	135	122	73
6	122	142	133	66
7	113	132	114	75
8	135	123	123	65
9	122	135	133	74
10	135	142	125	83

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.2 Penetration of filter material	Sodium chloride, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS
<b>Penetration of filter material</b>					<b>Sodium Chloride (%)</b>	<b>Paraffin Oil (%)</b>	
As received					1,8	2,2	
As received					1,9	2,3	
As received					1,7	2,1	
After the simulated wearing treatment					1,8	2,5	
After the simulated wearing treatment					1,9	2,3	
After the simulated wearing treatment					1,8	2,0	
Mechanical strength and temperature conditioning					3,7	4,3	
Mechanical strength and temperature conditioning					4,2	4,5	
Mechanical strength and temperature conditioning					4,0	4,4	

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.10 Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Part 7.11 Flammibility	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Part 7.12 Carbondioxide content of the inhalation air	Shall not exceed an average of % 1				0,81 0,79 0,76	-	PASS

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Part 7.13 Head harness	It can be donned and removed easily	Appropriate	-	PASS
Part 7.14 Field of vision	The field of vision shall acceptable in practical performance test.	Appropriate	-	PASS
Part 7.15 Exhalation valve(s)	It shall withstand axially a tensile force of 10 N apply for 10 s. If fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s.	Not applicable	-	Not applicable

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.16 Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1,0 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3,0 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3,0 mbar	3,0 mbar	3,0 mbar	See the table below	FFP2	PASS

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As recieved	0,4	1,5
As recieved	0,4	1,6
As recieved	0,4	1,5
After temperature conditioning	0,3	1,4
After temperature conditioning	0,3	1,6
After temperature conditioning	0,4	1,5
After the simulated wearing treatment	0,3	1,6
After the simulated wearing treatment	0,3	1,5
After the simulated wearing treatment	0,3	1,4

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,6	2,5	2,7	2,7	2,6
As recieved	2,5	2,6	2,6	2,7	2,7
As recieved	2,5	2,6	2,6	2,7	2,6
After temperature conditioning	2,5	2,5	2,7	2,6	2,5
After temperature conditioning	2,6	2,5	2,7	2,5	2,5
After temperature conditioning	2,6	2,6	2,6	2,6	2,5
After the simulated wearing treatment	2,5	2,5	2,6	2,5	2,6
After the simulated wearing treatment	2,5	2,6	2,4	2,5	2,6
After the simulated wearing treatment	2,6	2,4	2,6	2,5	2,6

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TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mbar	5 mbar	7 mbar	Not applicable	-	Not applicable
	The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved)				Not applicable	-	Not applicable
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mbar	4 mbar	5 mbar	Not applicable	-	Not applicable
Part 7.18 Demountable part	All demountable parts (if fitted) shall be readily connected and secured were possible by hand.				Not applicable	-	Not applicable
Part 9 Marking	The packaging information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.				Appropriate	-	PASS

**9. DECISION**

Analysis and examinations SENSOMASK model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. The homogeneity of the production was monitored at the performance levels determined as a result of the technical evaluations made within the scope of MODULE C2.

**10. ATTACHMENTS**

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports (M-2022-0679-02, M-2022-0383)
- User Instruction

CONTROLLER : VOLKAN AKIN

SIGN :

DATE : 01.09.2022



## MNA LABORATORY ANALYSIS REPORT

AB-1183-T

M-2022-0383

09-22

Report Nu. : M-2022-0383	Date : 2022-09-01 15:01:40	Page : 1 / 3	Rev:
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Purpose of Analysis	: Special request
Sample Send Org.	: RAİFOĞULLARI TEKSTİL GIDA MAD. SAN. VE TİC. A.Ş.
Address	: pınarkent mah cafer sadık abalıoğlu(şahinler) bulv.
Sample Acceptance Date	: 2022-04-15 09:24:32
Analysis Date	: 2022-04-20 17:51:26
Sample Quantity	: 10 Pieces
Sample Description	: SENSOMASK
Other informations	: MODULE C2

### Banned Azo Dyes \*

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Banned Azo Dyes	Check the table for results.	≤30 mg/kg	EN ISO 14362-1 / EN ISO 17234-1	PASS	-

CAS No	Substances
92-67-1	4-aminobiphenyl
92-87-5	Benzidine
95-69-2	4-chloro-o-toluidine
91-59-8	2-naphthylamine
97-56-3	o-aminoazotoluene
99-55-8	5-nitro-o-toluidine
106-47-8	4-chloroaniline
615-05-4	2,4-diaminoanisole
101-77-9	4,4-methylenedianiline
91-94-1	3,3-dichlorobenzidine
119-90-4	3,3-dimethoxybenzidine
119-93-7	3,3-dimethylbenzidine
838-88-0	4,4-methylenediotoluidine
120-71-8	p-cresidine
101-14-4	2,2-dichloro-4,4-methylene-dianiline
101-80-4	4,4-oxydianiline
139-65-1	4,4-thiodianiline
95-53-4	o-toluidine
95-80-7	2,4-diaminotoluene

**MNA LABORATORY  
ANALYSIS REPORT**

AB-1183-T

M-2022-0383

09-22

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137-17-7	2,4,5-trimethylaniline		
90-04-0	o-anisidine		
60-09-3	4-aminoazobenzene		

Part of Sample	Results(mg/kg)
Black	<5



## MNA LABORATORY ANALYSIS REPORT

AB-1183-T

M-2022-0383

09-22

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\*The analysis is within the scope of accreditation.

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3. Unsigned and Unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative proceedings and for advertising purposes.
5. Results are valid for the sample received.
6. A decision rule is a rule that determines how measurement uncertainty is to be taken into account when specifying compliance with a specified specification. TLM-052 Decision Rule According to the implementation instruction, the decision rule chosen in agreement with the customer will be applied if necessary.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pages, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2 conditions ( $23 \pm 2$  ° C temperature and  $50 \pm 4\%$  relative humidity) are applied for ambient conditions.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-08-31 14:25:44

Erhan Üstünel

Laboratory Responsible

2022-08-31 13:42:55



VOLKAN AKIN  
Laboratory Manager  
2022-09-01 15:00:45



## MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0679-2	Date : 2022-09-01 15:01:56	Page : 1 / 5	Rev: 2
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Purpose of Analysis	: Special request
Sample Send Org.	: RAİFOĞULLARI TEKSTİL GIDA MAD. SAN. VE TİC. A.Ş.
Address	: pınarkent mah cafer sadık abalıoğlu(şahinler) bulv.
Sample Acceptance Date	: 2022-08-18 13:19:48
Analysis Date	: 2022-08-18 15:29:39
Sample Quantity	: 170 Pieces
Sample Description	: SENSOMASK
Other informations	:

### Flammability

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Flammability	Flame not seen.	Shall not burn for more than 5 sec after removal from the flame	EN 13274-4	PASS	-

### Penetration Of Filter Material

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Penetration Of Filter Material	Check the table for results.	FFP1 $\leq$ 20 FFP2 $\leq$ 6 FFP3 $\leq$ 1	EN 149+A1 Part 8.11, EN 13274-7	PASS(FFP2)	-

	Sodium Chloride (%)	Paraffin Oil (%)
As received 1	1,8	2,2
As received 2	1,9	2,3
As received 3	1,7	2,1
After the simulated wearing treatment 1	1,8	2,5
After the simulated wearing treatment 2	1,9	2,3
After the simulated wearing treatment 3	1,8	2,0
Mechanical strength and temperature conditioning (120 mg) 1	3,7	4,3
Mechanical strength and temperature conditioning (120 mg) 2	4,2	4,5
Mechanical strength and temperature conditioning (120 mg) 3	4,0	4,4

## MNA LABORATORY ANALYSIS REPORT

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### Carbon Dioxide Content Of The Inhalation Air

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Carbon Dioxide Content Of The Inhalation Air	Check the table for results.	Maximum %1	EN 149+A1 Part 8.7	PASS(FFP2)	-

	CO2 (%)
Sample 1	0,81
Sample 2	0,79
Sample 3	0,76

### Breathing Resistance

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Breathing Resistance	Check the table for results.	See the limits table.	EN 149+A1 Part 8.9	PASS(FFP2)	-

Classification	30 L/min max basınç (mbar)	95 L/min max basınç (mbar)	160 L/min max basınç (mbar)
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Inhalation	30 L/min	95 L/min
As received 1	0,4	1,5
As received 2	0,4	1,6
As received 3	0,4	1,5
After temperature conditioning 1	0,3	1,4
After temperature conditioning 2	0,3	1,6
After temperature conditioning 3	0,4	1,5
After the simulated wearing treatment 1	0,3	1,6
After the simulated wearing treatment 2	0,3	1,5
After the simulated wearing treatment 3	0,3	1,4
After the flow conditioning 1	-	-

## MNA LABORATORY ANALYSIS REPORT

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After the flow conditioning 2	-	-
After the flow conditioning 3	-	-

Exhalation 160L/min	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received 1	2,6	2,5	2,7	2,7	2,6
As received 2	2,5	2,6	2,6	2,7	2,7
As received 3	2,5	2,6	2,6	2,7	2,6
After temperature conditioning 1	2,5	2,5	2,7	2,6	2,5
After temperature conditioning 2	2,6	2,5	2,7	2,6	2,5
After temperature conditioning 3	2,6	2,6	2,6	2,6	2,5
After the simulated wearing treatment 1	2,5	2,5	2,6	2,5	2,6
After the simulated wearing treatment 2	2,5	2,6	2,4	2,5	2,6
After the simulated wearing treatment 3	2,6	2,4	2,6	2,5	2,6
After the flow conditioning 1	-	-	-	-	-
After the flow conditioning 2	-	-	-	-	-
After the flow conditioning 3					

### Total Inward Leakage

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Total Inward Leakage	Check the table for results.	See the limits table.	EN 149+A1 Part 8.5	PASS(FFP2)	-

	At least 46 out of the 50 individual exercise result shall be not greater than	At least 8 out of the 10 individual wearer arithmetic means shall be not greater than
FFP1	≤25	≤22
FFP2	≤11	≤8
FFP3	≤5	≤2

## MNA LABORATORY ANALYSIS REPORT

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	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	7,0	7,4	7,2	8,0	6,6	7,2
Subject 2 (As received)	7,3	6,8	7,8	6,5	7,8	7,2
Subject 3 (As received)	7,0	6,5	7,6	6,5	8,5	7,2
Subject 4 (As received)	8,1	8,5	6,4	4,9	6,6	6,9
Subject 5 (As received)	8,3	5,5	7,6	5,3	7,8	6,9
Subject 6 (After temperature conditioning)	7,7	8,1	5,3	7,2	7,0	7,1
Subject 7 (After temperature conditioning)	7,9	8,7	7,5	7,7	7,4	7,8
Subject 8 (After temperature conditioning)	7,2	7,5	8,7	7,6	8,5	7,9
Subject 9 (After temperature conditioning)	7,1	7,3	7,2	7,7	9,1	7,7
Subject 10 (After temperature conditioning)	7,9	7,1	6,9	9,2	7,2	7,7

## MNA LABORATORY ANALYSIS REPORT

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  6. A decision rule is a rule that determines how measurement uncertainty is to be taken into account when specifying compliance with a specified specification. TLM-052 Decision Rule According to the implementation instruction, the decision rule chosen in agreement with the customer will be applied if necessary.
  7. Limit Values are determined by taking from analysis methods.
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- Note: This Test Report is the revised new edition of the Test Report numbered M-2022-0679-1 and supersedes the previous edition.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-08-31 13:56:50

Erhan Üstünel

Laboratory Responsible

2022-08-31 13:43:43



VOLKAN AKIN  
Laboratory Manager  
2022-09-01 14:59:55

