MNA LABORATUVARLARI

Notified Body Number: 2841

# 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* | : 57071722 |
| **Belgelendirme Tarihi - Bir Sonraki Belge Tarihi** / *Certification Date / Certificate Validity Date* | : 18.09.2023-18.09.2024 |
| **Belge Geçerlilik Tarihi** / *Document Validity Period* | : 1 yıl / *1 year* |
| **Firma Unvanı ve Adresi** / *Company Name and Address* | : Fit Pharm Technologies GmbH Industriestraße 45, 48629 Metelen Deutschland |
| **Marka / Model** / *Brand / Model* | : FIT F262 |
| **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* | : MNA 57071722 |

**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*:** FIT F262 model ürünleri kumaş, elastik kayış, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir. / FIT F262 *model products are manufactured using fabric, elastic strap, nose clip, filter layer.*

***Volkan AKIN***
***18.09.2023***
***Karar Verici / Approver***

***Okan AKEL***
***18.09.2023***
***Şirket Müdürü / General manager***

MNA Laboratuvarları San. Tic.Ltd .Şti
Adres: Küçükbakkalköy Mahallesi Yenidoğan Cad.No:21 Ataşehir/ İstanbul
Tel: 0216 574 07 08 Faks: 0216 575 13 31 www.mnalab.com

Notified Body Number: 2841

# CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT CHECK AT RANDOM INTERVALS (MODULE C2, ANNEX VII) (57071722)

**Report No** : 57071722

**Report Date** : 18.09.2023

**Application No** : 57071722

1. **COMPANY INFORMATION:**
   Fit Pharm Technologies GmbH
   Industriestraße 45, 48629 Metelen Deutschland

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**

FIT F262 (NAVY BLUE-MEDICAL GREEN-NUDE PINK-YELLOW-WHITE)

5. **PPE DIMENSIONS:**
   FIT F262 model has been found to be produced using small size.

6. **PPE PRODUCT MATERIAL INFORMATION:**
   The mask is made of elastic strap, nonwoven fabric on the outer and inner layers and fitler 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**

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

**Subject facial dimensions**

| Subject | Face Length (mm) | Face Width (mm) | Face Depth (mm) | Mouth Width (mm) |
|---|---|---|---|---|
| 1 | 120 | 145 | 105 | 61 |
| 2 | 128 | 155 | 112 | 68 |
| 3 | 110 | 128 | 105 | 55 |
| 4 | 123 | 140 | 133 | 57 |

| | | | | |
|---|---|---|---|---|
| **5** | 116 | 128 | 99 | 58 |
| **6** | 120 | 130 | 91 | 56 |
| **7** | 138 | 151 | 119 | 65 |
| **8** | 110 | 130 | 96 | 55 |
| **9** | 120 | 131 | 85 | 58 |
| **10** | 135 | 142 | 125 | 83 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|---|---|---|---|---|---|---|---|
| | | FFP 1 | FFP 2 | 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 |

| Penetration of filter material | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---|---|
| As received | 1,9 | 3,2 |
| As received | 1,8 | 3,6 |
| As received | 1,6 | 3,8 |
| After the simulated wearing treatment | 1,7 | 3,0 |
| After the simulated wearing treatment | 1,5 | 3,4 |
| After the simulated wearing treatment | 1,8 | 3,1 |
| Mechanical strength and temperature conditioning (120mg) | 4,1 | 5,2 |
| Mechanical strength and temperature conditioning (120mg) | 3,5 | 5,5 |
| Mechanical strength and temperature conditioning (120mg) | 4,0 | 5,3 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|---|---|---|---|---|---|---|---|
| | | FFP1 | FFP 2 | 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 | | | | 0,50<br>0,55<br>0,51 | - | PASS |
| 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.<br>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 | FFP 2 | 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 received | 0,4 | 1,7 |
| As received | 0,5 | 1,7 |
| As received | 0,5 | 1,6 |
| After temperature conditioning | 0,5 | 1,5 |
| After temperature conditioning | 0,4 | 1,5 |
| After temperature conditioning | 0,4 | 1,4 |
| After the simulated wearing treatment | 0,5 | 1,6 |
| After the simulated wearing treatment | 0,4 | 1,6 |
| After the simulated wearing treatment | 0,4 | 1,6 |

| 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 received | 2,4 | 2,4 | 2,4 | 2,3 | 2,4 |
| As received | 2,3 | 2,3 | 2,3 | 2,4 | 2,4 |
| As received | 2,3 | 2,4 | 2,4 | 2,3 | 2,4 |
| After temperature conditioning | 2,1 | 2,1 | 2,0 | 2,0 | 2,1 |
| After temperature conditioning | 2,2 | 2,1 | 2,1 | 2,1 | 2,2 |
| After temperature conditioning | 2,1 | 2,1 | 2,0 | 2,0 | 2,0 |
| After the simulated wearing treatment | 2,3 | 2,4 | 2,4 | 2,3 | 2,4 |
| After the simulated wearing treatment | 2,4 | 2,4 | 2,3 | 2,3 | 2,3 |
| After the simulated wearing treatment | 2,4 | 2,3 | 2,3 | 2,3 | 2,4 |

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|---|---|---|---|---|---|---|---|
| | | FFP 1 | FFP 2 | 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 | | | | Appropriate | - | PASS |

| | | | | |
|---|---|---|---|---|
| | commercially available packaging or legible through it if the packaging is transparent. | | | |

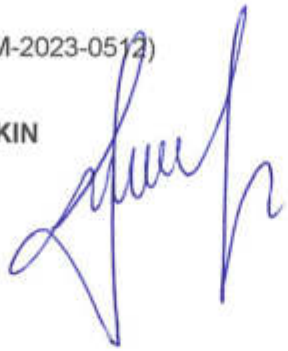
**9. ATTACHMENTS**

- Test Reports (M-2023-0511, M-2023-0512)

**CONTROLLER** : **VOLKAN AKIN**

**SIGNATURE** :

**DATE** : **18.09.2023**



# MNA LABORATORY
# ANALYSIS REPORT

| Report Nu. : M-2023-0511 | Date : 2023-09-13 11:28:21 | Page : 1 / 5 | Rev: |
|---|---|---|---|

| | |
|---|---|
| Purpose of Analysis | : Special request |
| Sample Send Org. | : FIT Pharm Technologies GmbH |
| Address | : Industriestr. 45, 48629 Metelen |
| Sample Acceptance Date | : 2023-08-24 15:57:17 |
| Analysis Date | : 2023-08-25 09:44:47 |
| Sample Quantity | : 120 Pieces |
| Sample Description | : FIT F262 |
| Other informations | : |

## Flammability

**Device: Flammability tester**

**Measurement uncertainty:-**

| Tests | Analysis result | Limit Value | Method | Evaluation | Physical Condition |
|---|---|---|---|---|---|
| **Flammability** | **No flame seen** | **Shall not burn for more than 5 sec after removal from the flame** | **EN 13274-4** | **PASS** | **-** |

## Penetration Of Filter Material

**Device:Filter Test System**

**Measurement uncertainty:±0,080**

| Tests | Analysis result | Limit Value | Method | Evaluation | Physical Condition |
|---|---|---|---|---|---|
| **Penetration Of Filter Material** | **Check the table** | **FFP1≤20 FFP2≤6 FFP3≤1** | **EN 149+A1 Part 8.11, EN 13274-7** | **PASS (FFP2)** | **-** |

| | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---|---|
| **As received 1** | **1,9** | **3,2** |
| **As received 2** | **1,8** | **3,6** |
| **As received 3** | **1,6** | **3,8** |
| **After the simulated wearing treatment 1** | **1,7** | **3,0** |
| **After the simulated wearing treatment 2** | **1,5** | **3,4** |
| **After the simulated wearing treatment 3** | **1,8** | **3,1** |
| **Mechanical strength and temperature conditioning (120 mg) 1** | **4,1** | **5,2** |



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| | | |
|---|---|---|
| **Mechanical strength and temperature conditioning (120 mg) 2** | **3,5** | **5,5** |
| **Mechanical strength and temperature conditioning (120 mg) 3** | **4,0** | **5,3** |

## Carbon Dioxide Content Of The Inhalation Air

**Device:Carbon DioxideTester**

**Measurement uncertainty:±0,072**

| Tests | Analysis result | Limit Value | Method | Evaluation | Physical Condition |
|---|---|---|---|---|---|
| **Carbon Dioxide Content Of The Inhalation Air** | **Check the table** | **Maximum %1** | **EN 149+A1 Part 8.7** | **PASS** | **-** |

| | CO2 (%) |
|---|---|
| **Sample 1** | **0,50** |
| **Sample 2** | **0,55** |
| **Sample 3** | **0,51** |

## Total Inward Leakage

**Device: Total Inward Leakage Tester**

**Measurement uncertainty:±0,090**

| Tests | Analysis result | Limit Value | Method | Evaluation | Physical Condition |
|---|---|---|---|---|---|
| **Total Inward Leakage** | **Check the table** | **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** |

| | Exercise 1 | Exercise 2 | Exercise 3 | Exercise 4 | Exercise 5 | Average |
|---|---|---|---|---|---|---|
| **Subject 1 (As received)** | **2,8** | **3,3** | **4,2** | **5,9** | **5,8** | **4,4** |



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

## Breathing Resistance

**Device:Breathing Resistance Tester**

**Measurement uncertainty: Inhalation 30L/min:±0,160,Inhalation30 L/min:±0,026 Exhalation 160 L/min:0,046**

| Tests | Analysis result | Limit Value | Method | Evaluation | Physical Condition |
|---|---|---|---|---|---|
| **Breathing Resistance** | **Check the table** | **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** | **1,7** |
| **As received 2** | **0,5** | **1,7** |
| **As received 3** | **0,5** | **1,6** |



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| | | |
|---|---|---|
| **After temperature conditioning 1** | **0,5** | **1,5** |
| **After temperature conditioning 2** | **0,4** | **1,5** |
| **After temperature conditioning 3** | **0,4** | **1,4** |
| **After the simulated wearing treatment 1** | **0,5** | **1,6** |
| **After the simulated wearing treatment 2** | **0,4** | **1,6** |
| **After the simulated wearing treatment 3** | **0,4** | **1,6** |
| **After the flow conditioning 1** | **-** | **-** |
| **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** | **2,4** | **2,4** | **2,4** | **2,3** | **2,4** |
| **As received 2** | **2,3** | **2,3** | **2,3** | **2,4** | **2,4** |
| **As received 3** | **2,3** | **2,4** | **2,4** | **2,3** | **2,4** |
| **After temperature conditioning 1** | **2,1** | **2,1** | **2,0** | **2,0** | **2,1** |
| **After temperature conditioning 2** | **2,2** | **2,1** | **2,1** | **2,1** | **2,2** |
| **After temperature conditioning 3** | **2,1** | **2,1** | **2,0** | **2,0** | **2,0** |
| **After the simulated wearing treatment 1** | **2,3** | **2,4** | **2,4** | **2,3** | **2,4** |
| **After the simulated wearing treatment 2** | **2,4** | **2,4** | **2,3** | **2,3** | **2,3** |
| **After the simulated wearing treatment 3** | **2,4** | **2,3** | **2,3** | **2,3** | **2,4** |
| **After the flow conditioning 1** | **-** | **-** | **-** | **-** | **-** |
| **After the flow conditioning 2** | **-** | **-** | **-** | **-** | **-** |
| **After the flow conditioning 3** | | | | | |



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info@mnalab.com tel: 02165740708 faks: 02165751331

# MNA LABORATORY
# ANALYSIS REPORT

| Report Nu. : M-2023-0511 | Date : 2023-09-13 11:28:21 | Page : 5 / 5 | Rev: |
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**Operating as a test laboratory, MNA Laboratories is accredited by TÜRKAK according to AB-1183-T and TS_EN_ISO/IEC_17025:2017 standards has been done. A multilateral agreement with the European Accreditation Association (EA) on the recognition of the Turkish Accreditation Agency (TÜRKAK) test reports and It has signed a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).**

***The analysis is within the scope of accreditation.**

**Note :**

**1. No part of this analysis report may be used alone or separately and may be partially copied or reproduced without the written permission of the laboratory. It cannot be reproduced, used by third parties or as a means of advertising.**
**2.Analysis results are valid for the sample sent and analyzed by the company/institution/individual to MNA Laboratories. represent the whole may not.**
**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 pa ges, 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 ± 2 ° C temperature and 50 ± 4% relative humidity) are applied for ambient conditions.**

**Selin Gergin**

**Sample Acceptance and Reporting Officer**

**2023-09-13 11:26:42**

**Erhan Üstünel**

**Laboratory Responsible**

**2023-09-13 11:16:18**

**VOLKAN AKIN**

**Laboratory Manager**

**2023-09-13 11:20:12**



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# ANALYSIS REPORT

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Test
TS EN ISO/IEC 17025
AB-1183-T

| |
|---|
| AB-1183-T |
| M-2023-0512 |
| 09-23 |

| | | | |
|---|---|---|---|
| Report Nu. : M-2023-0512 | Date : 2023-09-13 11:28:43 | Page : 1 / 3 | Rev: |

| | |
|---|---|
| Purpose of Analysis | : Special request |
| Sample Send Org. | : FIT Pharm Technologies GmbH |
| Address | : Industriestr. 45, 48629 Metelen |
| Sample Acceptance Date | : 2023-08-24 16:03:12 |
| Analysis Date | : 2023-08-25 09:45:02 |
| Sample Quantity | : 25 Pieces |
| Sample Description | : FIT F262 |
| Other informations | : |

## Banned Azo Dyes *

**Device:GC-MS**

**Measurement uncertainty: Textile:±0,350 Leather:±0,390**

| 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 | - |

| Part of Sample | Results(mg/kg) |
|---|---|
| Navy Blue+Yellow+Nude Pink,Medical Green | <5 |

| 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 |
| | |



Küçükbakkalköy Mahallesi Yenidogan Caddesi No: 21 Ataşehir İstanbul
info@mnalab.com tel: 02165740708 faks: 02165751331

MNALABS

# MNA LABORATORY
# ANALYSIS REPORT

TÜRKAK
Test
TS EN ISO/IEC 17025
AB-1183-T

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| AB-1183-T |
| M-2023-0512 |
| 09-23 |



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



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# ANALYSIS REPORT

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**Operating as a test laboratory, MNA Laboratories is accredited by TÜRKAK according to AB-1183-T and TS_EN_ISO/IEC_17025:2017 standards has been done. A multilateral agreement with the European Accreditation Association (EA) on the recognition of the Turkish Accreditation Agency (TÜRKAK) test reports and It has signed a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).**

***The analysis is within the scope of accreditation.**

**Note :**

**1. No part of this analysis report may be used alone or separately and may be partially copied or reproduced without the written permission of the laboratory. It cannot be reproduced, used by third parties or as a means of advertising.**
**2.Analysis results are valid for the sample sent and analyzed by the company/institution/individual to MNA Laboratories. represent the whole may not.**
**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 pa ges, 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 ± 2 ° C temperature and 50 ± 4% relative humidity) are applied for ambient conditions.**

**Selin Gergin**

**Sample Acceptance and Reporting Officer**

**2023-08-25 18:26:13**

**Erhan Üstünel**

**Laboratory Responsible**

**2023-08-25 18:27:25**

**VOLKAN AKIN**

**Laboratory Manager**

**2023-08-25 18:24:15**



Küçükbakkalköy Mahallesi Yenidogan Caddesi No: 21 Ataşehir İstanbul
info@mnalab.com tel: 02165740708 faks: 02165751331