



TURKISH ACCREDITATION AGENCY

## ACCREDITATION CERTIFICATE

As a Testing Laboratory

**MASS LABORATUVAR VE DANIŞMANLIK HİZMETLERİ ANONİM ŞİRKETİ**

Central Address: SULTANİYE MAH. 350. SK. ŞELALE PLAZA NO:1/110 ESENYURT İstanbul / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

**Accreditation Number : AB-1454-T**

**Accreditation Date : 13.03.2019**

**Revision Date / Number : 23.06.2023 / 06**

This certificate shall remain in force until **11.03.2027**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu  
Secretary General




Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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 <p>Test TS EN ISO/IEC 17025 AB-1454-T</p>	<b>MASS LABORATUVAR VE DANIŞMANLIK HİZMETLERİ ANONİM ŞİRKETİ</b>	
	Accreditation Nr: AB-1454-T Revision Nr: 06 Date: 23.06.2023	
Testing Laboratory		
Address : SULTANIYE MAH. 350. SK. ŞELELE PLAZA NO:1/110 ESENYURT İstanbul / Türkiye	Phone : +90 212 909 0380 Fax : Email : kalite@masslab.com.tr Website :	

### Chemicals and Chemical Products

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Biocidal Products	Determination of pH, Acidity and Alkalinity	OECD 122 TS 7344
Biocidal Products	Determination of Density	OECD 109
Biocidal Products	Determination of Ethyl Alcohol GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)
Biocidal Products	Determination of Methyl Alcohol GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)
Biocidal Products	Determination of Isopropyl Alcohol (2- Propanol)  GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)
Biocidal Products	Determination of Benzalkonium Chloride HPLC-UV/DAD Method	In House Method - "K.SOP.13/Rev.1" (Rapid Determination of Benzalkonium Chloride in a Cosmetic)
Cosmetic Products And Related Products	Determination of 2-phenoxyethanol  HPLC-UV/DAD Method	96/45/EC
Skin Cream	Ph Determination	TS 4811
Detergents, Cleaning Products, Personal Cleaning Products	pH determination	TS 518 TS 5270 TS EN ISO 11609 In House Method - "K.SOP.01/Rev.01" (Modified from TS 518, TS 9676, TS 6365 EN 1262, TS EN ISO 11609, TS 5270, TS 11885)
Cosmetic Products and Related Products, Detergent and Personal Cleaning Products	Determination of the Density	In House Method - "K.SOP.04/Rev.0" (Modified from TS 781 ISO 758 and OECD 109)
Biocidal, Cosmetic Ingredients, Related Products, Detergent and Personal Cleaning Products	Determination of Viscosity	TS ISO 6388
Cosmetic Ingredients and Related Products	Ethyl Alcohol Determination GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)
Cosmetic Ingredients and Related Products	Methyl Alcohol Determination GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)
Cosmetic Products And Related Products	Determination of Isopropyl Alcohol (2- Propanol)  GC-MS Method	In House Method - "K.SOP.07/Rev.1" (Modified from AOAC 984.14)

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Testing Laboratory		
<b>Address :</b> SULTANIYE MAH. 350. SK. ŞELELE PLAZA NO:1/110 ESENYURT İstanbul / Türkiye		Phone : +90 212 909 0380 Fax : - Email : kalite@masslab.com.tr Website :
Cosmetic Products And Related Products	Determination of Heavy Metals (Lead (Pb), Cadmium (Cd), Arsenic, (As), Mercury (Hg), Antimony (Sb))  Pretreatment: Microwave Digestion  ICP-MS Method	In House Method - "K.SOP.09/Rev.0" (Modified from NMKL.186)
Cosmetic Products And Related Products	Determination of Parabens (Methyl paraben, Ethyl paraben, Propyl paraben, Isopropyl paraben, Butyl paraben, Isobutyl paraben, Benzyl paraben)  HPLC-UV/DAD Method	96/45/EC
Cosmetic Ingredients and Related Products	Determination of 1-4 Dioxane GC-MS Method	In House Method - "K.SOP.11/Rev.0" (Modified from Determination of residual 1,4 Dioxane in surfactants and cleaning agents using headspace single-drop microextraction followed by gas chromatography-flame ionization detection)
Biocidal Products	Determination of 2-Phenoxyethanol  HPLC-UV/DAD Method	96/45 / EC
Cosmetic Products And Related Products	Determination of Phthalates  GC-MS Method	BS EN 16521
Cosmetic Products And Related Products (Shampoo, Soap)	Determination of Moisture and Volatile Matter Content Gravimetric Method (at 103°C)	ISO 672
Cologne, Alcohol	Determination of Alcohol Degree (% Alcohol by Vol.)	In House Method - "K.SOP.08/Rev.0" (Modified from ISO 4801)
Detergent and Personal Cleaning Products	Determination of Active Ingredients	TS 518
Detergent and Personal Cleaning Products	Determination of Anionic Active Substance  Two Phase Titration Method	ISO 2271
Detergent and Personal Cleaning Products	Nonionic Active Substance Determination	ISO 2268
Detergents, Surfactants and Disinfectants	Determination of High Molecular Mass Cationic Active Substance	TS EN ISO 2871-1
Detergent and Personal Cleaning Products	Determination of Low Molecular Mass Cationic Active Substance	TS EN ISO 2871-2



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**Textile and Leather Products**

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Footwear	Determination of Phthalate GC-MS Method	<ul style="list-style-type: none"> <li>• ISO/TS 16181</li> <li>• CEN ISO/TS 16181</li> <li>• DIN CEN ISO/TS 16181</li> </ul>
Footwear	Determination of Organotin Compounds in Footwear Materials GC-MS Method	<ul style="list-style-type: none"> <li>• ISO/TS 16179</li> <li>• CEN ISO/TS 16179</li> <li>• DIN CEN ISO/TS 16179</li> </ul>
Leather	Chemical Determination of Chromium VI (Cr <sup>+6</sup> ) Content Colorimetric Method UV-VIS Spectrophotometer Method	TS EN ISO 17075-1 BS EN ISO 17075-1 ISO 17075-1 EN ISO 17075-1 DIN EN ISO 17075-1
Footwear, Textile, Leather, Polymers	Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in Footwear Components GC-MS Method	<ul style="list-style-type: none"> <li>• ISO/TS 16190</li> <li>• TSE CEN ISO/TS 16190</li> <li>• CEN ISO/TS 16190</li> <li>• DIN CEN ISO/TS 16190</li> </ul>
Plastics, Plastisol Prints, Plastic Coated Textiles, Plastic Packaging Materials and Toys (Excluding polyfluorinated plastic materials)	Determination of Total Cadmium (Cd) Wet decomposition method ICP-MS or AAS Method	TS EN 1122 BS EN 1122 EN 1122 DIN EN 1122
Textile Accessory, Metal Accessory	Determination of Release of Nickel from Articles Intended to Come Into Direct and Prolonged Contact With The Skin ICP-MS or AAS Method	TS EN 1811+A1 BS EN 1811+A1 EN 1811+A1
Textile Accessory, Metal Accessory	Determination Of Nickel Separation Method In Coated Materials Abrasion And Corrosion Simulation Tests	TS EN 12472+A1 BS EN 12472+A1 EN 12472+A1
Textiles	Methods for determination of certain aromatic amines derived from azo colorants Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres GC-MS Method	TS EN ISO 14362-1 BS EN ISO 14362-1 EN ISO 14362-1 DIN EN ISO 14362-1 ISO 14362-1
Textiles	Methods for determination of certain aromatic amines derived from azo colorants Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene GC-MS Method	TS EN ISO 14362-3 BS EN ISO 14362-3 DIN EN ISO 14362-3 EN ISO 14362-3 ISO 14362-3
Leather	Chemical tests for the determination of certain azo colourants in dyed leathers Part 1: Determination of certain aromatic amines derived from azo colourants GC-MS Method	TS EN ISO 17234-1 BS EN ISO 17234-1 DIN EN ISO 17234-1 ISO 17234-1




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Leather	Chemical tests for the determination of certain azo colorants in dyed leathers  Part 2: Determination of 4-aminoazobenzene  GC-MS Method	TS EN ISO 17234-2 BS EN ISO 17234-2 DIN EN ISO 17234-2 ISO 17234-2
Textiles	Determination of pH of Aqueous Extract (Using pH Meter)	TS EN ISO 3071 BS EN ISO 3071 EN ISO 3071 ISO 3071 DIN EN ISO 3071
Leather	Determination of pH (Using pH Meter)	TS EN ISO 4045 BS EN ISO 4045 DIN EN ISO 4045 ISO 4045
Footwear	Determination of Dimethyl Formamide (DMFa)  GC-MS Method	<ul style="list-style-type: none"> <li>• ISO/TS 16189</li> <li>• TSE CEN ISO / TS 16189</li> </ul>
Textiles, Plastics	Determination of Poly Aromatic Hydrocarbons (PAHs)  GC-MS Method	AfPS GS 2019:01 PAK
Textiles	Determination of Free and Hydrolyzed Formaldehyde  Water Extraction Method  UV-VIS Spectrophotometer Method	TS EN ISO 14184-1 ISO 14184-1
Textiles, Accessory	Determination of Total Metal by Microwave Method  Lead (Pb), Cadmium (Cd), Chromium (Cr), Mercury (Hg), Arsenic (As), Copper (Cu), Cobalt (Co), Nickel (Ni), Antimony (Sb)  ICP-MS Method	TS EN 16711-1 BS EN 16711-1 EN 16711-1 DIN EN 16711-1
Coated Metal, Textile	Determination Of Lead (Pb) Release By Artificial Saliva Solution  ICP-MS Method	<ul style="list-style-type: none"> <li>• BS EN 16711-3</li> <li>• ISO 17294-2</li> </ul>
Leather	Determination of Formaldehyde  Colorimetric method  UV-VIS Spectrophotometer Method	TS EN ISO 17226-2 ISO 17226-2
Textile, Leather	Determination of Phthalate  GC-MS Method	BS EN ISO 14389 ISO 14389
Textiles	Determination of Extractable Heavy Metal with Acidic Perspiration Solution  Lead(Pb), Cadmium(Cd), Mercury(Hg), Arsenic(As), Copper(Cu), Cobalt(Co), Chromium(Cr), Nickel( Ni), Atimony(Sb)  ICP-MS Method	BS EN 16711-2 TS EN 16711-2 EN 16711-2 DIN EN 16711-2
Pigment Printed Textiles, Coated Textiles	Determination of Total Lead (Pb)  Microwave or Acid Solubilization Method  ICP-MS Method	ASTM E 1613 ASTM E 1645

## Accreditation Scope

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Textiles	Determination of Extractable Heavy Metal with Saliva Solution  Lead(Pb), Cadmium(Cd), Mercury(Hg), Arsenic(As), Copper(Cu),Cobalt(Co), Chromium(Cr), Nickel( Ni), Antimony(Sb)  ICP-MS Method	DIN 54233-4
Plastic, Textiles, Metal	Determination of Cadmium (Cd) by Heater or Microwave Method  ICP-MS or AAS Method	Inhouse method; IHTM T.SOP.22 (Modified from EPA 3050A, EPA 3051, EPA 3051B, EPA 3052)
Textiles, Plastic	Determination of Brominated Flame Retardants  GC-MS Method	BS EN ISO 17881-1 DIN EN ISO 17881-1 TS EN ISO 17881-1 ISO 17881-1
Leather	Chemical Determination of Extractable Metal Content in Leathers  (Determination of Lead(Pb), Cadmium(Cd), Mercury(Hg), Arsenic(As), Copper(Cu), Cobalt(Co), Chromium(Cr), Nickel(Ni), Antimony(Sb))  ICP-MS Method	TS EN ISO 17072-1 BS EN ISO 17072-1 DIN EN ISO 17072-1 ISO 17072-1
Leather	Chemical Determination of Metal Content Lead (Pb), Cadmium (Cd), Chrome (Cr), Arsenic (As), Cobalt (Co), Nickel (Ni), Mercury (Hg), Copper (Cu), Antimony (Sb) (Using ICP-MS or ICP-OES)	TS EN ISO 17072-2 BS EN ISO 17072-2 DIN EN ISO 17072-2 ISO 17072-2
Coated Textiles, Plastics, Packaging Materials, Toys, Child Use and Care Items, Footwear	Determination of Phthalate (Using GC-MS)	CPSC-CH-C1001-09.4

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**Environmental Tests**

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Water	Determination of pH Electrometric Method	SM 4500 H <sup>+</sup> B
Water	Determination of Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Selenium (Se), Zinc (Zn), Iron (Fe) Preparation: Nitric Acid Extraction Analysis: ICP-MS Method	SM 3030K EPA 6020 A
Water	Determination of Ammonium Manual Spectrophotometric Method	TS 7159
Water	Determination of Nitrite/Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO <sub>2</sub> <sup>-</sup> B
Water	Nitrate/Nitrate Nitrogen Determination Spectrophotometric Method	SM 4500-NO <sub>3</sub> <sup>-</sup> B
Water	Determination of Alkalinity Titrimetric Method	SM 2320 B
Water	Determination of Free Chlorine Titrimetric Method	TS 5489 EN ISO 7393-1
Water	Determination of Total Chlorine Titrimetric Method	TS 5489 EN ISO 7393-1
Water	Determination of Chloride Titrimetric Method	SM 4500-Cl <sup>-</sup> B
Water	Sulphate Determination Spectrophotometric Method	SM 4500 SO <sub>4</sub> <sup>2-</sup> E
Water	Determination of Color Spectrophotometric Method	SM 2120 C



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### Toys, Child Care Products

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Children's Products	Total Lead (Pb) Analysis in Non-Metal Children's Products ICP-MS or AAS Method	CPSC-CH-E1002.08 ASTM F963-17 Chapter 4.3.5.2 ASTM F963-17 Chapter 8.3.1.1
Children's Products	Determination of Total Lead (Pb) in Paint and Dyed / Coated Samples ICP-MS or AAS Method	CPSC-CH-E1003.09 16 CFR 1303 ASTM F963-17 Chapter 4.3.5.1 ASTM F963-17 Chapter 8.3.1.1
Children Products (Bijouterie and Jewellery), Metal Accessory	Determination of Total Lead (Pb) in Metal Children Products ICP-MS or AAS Method	CPSC-CH-E1001.08 ASTM F963-17 Chapter 4.3.5.2 ASTM F963-17 Chapter 8.3.1.1

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**Plastic and Rubber Products**

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Electrotechnical Products (Polymers, Metals and Electronics)	Determination of Cadmium (Cd), Lead (Pb) and Chromium (Cr) ICP-MS Method	IEC 62321-5
Electrotechnical Products (Polymers, Metals and Electronics)	Determination of Mercury (Hg) ICP-MS Method	IEC 62321-4
Electrotechnical Products	Determination of Lead (Pb), Mercury (Hg), Cadmium (Cd), Total Chromium (Cr), Total Bromine (Br) by Scanning Method by Using X-Ray Fluorescence Spectrometer (XRF) in Electrotechnical Products	IEC 62321-3-1
Electrotechnical Products (Polymers)	Determination of PBB (Poly Brominated biphenyls) and PBDE (Poly Brominated diphenyl ethers) GC-MS Method	IEC 62321-6 To implement the requirements of REACH Regulation 1907/2006 Annex XVII Item 8
Electrotechnical Products (Polymers and Electronics)	Determination of Chromium VI (Cr VI) UV-VIS Spectrophotometer Method	• IEC 62321-7-2
Electrotechnical Products (Metals)	Determination of Chromium VI (Cr VI) UV-VIS Spectrophotometer Method	IEC 62321-7-1
Electrotechnical Products (Polymers)	Determination of Phthalate GC-MS Method	IEC 62321-8

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