



REPUBLIC OF TURKEY  
HALAL ACCREDITATION AGENCY

# HALAL ACCREDITATION CERTIFICATE

**Laboratory Performing Halal Testing**

**KALİTE SİSTEM LABORATUVARI A.Ş.**

Address : Örnek Mahallesi Libadiye Caddesi No:131-133, 34704  
Ataşehir/İstanbul

**Accredited in accordance with the OIC/SMIIC 35:2020  
Standard for the attached scope.**

Halal Accreditation Number

**2023-034**

Halal Accreditation Scope

**Shown in annex**

Initial Halal Accreditation Date

**14.07.2023**

Expiry Date

**14.07.2028**

This certificate is valid with the halal accreditation scope until the expiry date, as long as the laboratory fully complies with the OIC/SMIIC 35:2020 Standard, national legislation and Halal Accreditation Agency rules.

**Zafer SOYLU**  
Chairman of the Board



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## **ANNEX** **HALAL ACCREDITATION SCOPE**

<b>Testing Fields- Tested Materials/Products</b>	<b>Name of Test</b>	<b>Test Method (national, International standards, in- house methods)</b>
Cereals and Cereals Products (excluding corn and legume)	Determination of Moisture Content	TS EN ISO 712
Cereals and Cereals Products	Determination of Ash Content	TS EN ISO 2171
Cereals and Cereals Products	Determination of Fat Content	In-house Method - ML-6.01-011- Rev.08 (Modified source:Tecator App.Notes, Gerhardt App. Notes)
Cereals and Cereals Products	Determination of Protein Content Kjeldahl Method	In-house Method - ML-6.01-006-Rev 10 (Modified source:Gerhardt App. Notes)
Cereals and Cereals Products	Determination of Salt Content Titrimetric Method	TS 5000
Cereals and Cereals Products	Determination of Starch Content Polarimetric Method	ICC No:123/1
Cereals and Cereals Products	Calculated Energy and Nutritive Values	Turkish Food Codex Labeling Regulation (Date: 26.01.2017, No: 29960)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Cereals and Cereals Products	Determination of Zearalenone (ZON) HPLC-FLD Method	In-house Method - ML-6.01-890-Rev02 Modified source:R- Biopharm RP91/RP90.V13
Cereals and Cereals Products	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	In-house Method - ML-6.01-891-Rev 03 Modified source:R- Biopharm A18-P07.V1
Cereals and Cereals Products	Determination of Deoxynivalenol (DON) HPLC-FLD Method	In-house Method - ML-6.01-888 Modified source:R-Biopharm P50.V10
Cereals and Cereals Products	Determination of Ochratoxin A HPLC-FLD Method	AOAC 2000.03
Baby Food Milk Milk Powder	Determination of Aflatoxin M1 HPLC-FLD Method	TS EN ISO 14501
Baby Food Milk Powder Milk and Milk Products	Determination of Melamine HPLC-UV/DAD Method	In-house Method - ML-6.01-896 Modified source: Agilent Application Note- Quantitative Liquid Chromatography Analysis of Melamine in Dairy Products
Baby Food	Determination of Nitrite and Nitrate HPLC-UV/DAD Method	In-house Method- ML-6.01-148 (Modified source: TS EN 12014-4, TS EN 12014-2)





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Infant Formula and Baby Supplement Food Infant Formula and Follow on Formula Foods Dietary foods for special medical purposes intended specifically for infants Meat and Meat Products Fish and molluscs	Determination of Polysyclic Aromatic Hydrocarbons (PAH) [Benzo(a)piren, Krisen, Benzo(a)anthrasen, Benzo(b)floranthen] HPLC-FLD Method	In-house Method - (Agilent Application Note (Analysis of Polycyclic Aromatic Hydrocarbons in Fish With Agilent Bont Elut Quechers AOAC kit and HPLC-FLD) Acta Chromatographica No 17-2006 (p:233- 249)
Infant Formula and Baby Supplement Food	Determination of Ochratoxin A HPLC-FLD Method	AOAC 2000.03
Infant Formula and Baby Supplement Food	Determination of Zearalenone (ZON) HPLC-FLD Method	In-house Method- ML-6.01-311 (Modified source:R-Biopharm A4-RP91.V1)
Infant Formula and Baby Supplement Food	Determination of Deoxynivalenol (DON) HPLC-UV Method	In-house Method- ML-6.01-310-Rev 04 (Modified source R-Biopharm A2-P50.V10)
Infant Formula and Baby Supplement Food	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	AOAC 2000.16
Infant Formula and Baby Supplement Food (Maize-based formulas)	Determination of Fumonisin (FB1+FB2) HPLC-FLD Method	AOAC 2001.04 R-Biopharm A4-P31.V7





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Hazelnut and Hazelnut Paste	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	Journal of AOAC International Vol.88, No.2
Chocolate	Determination of Total Cocoa Dry Matter	TS 7800
Chocolate	Determination of Skim Milk Dry Matter Gravimetric Method	AOAC 939.02
Chocolate	Determination of Fat-Free Cocoa Dry Matter	TS 7800
Chocolate	Determination of Reichert-Meissl Number	AOAC 925.41
Chocolate	Determination of Crude Fat	Tecator Application Notes ASN3121 Gerhardt Application Notes B.1.3
Chocolate	Determination of Theobromine Spectrofotometric Method	TS 7800
Dry Fig, Fig Paste	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	AOAC 999.07 JOAC Int. Vol 88, No 2



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Pistachios	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	AOAC 999.07 JOAC Int. Vol 88, No 2
Oily seeds	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	JOAC Int. Vol 88, No 2 AOAC 999.07
Dry Fruits	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	JOAC Int. Vol 88, No 2 AOAC 999.07
Dry Fruits	Determination of Ochratoxin A HPLC-FLD Method	R-Biopharm A17-P14.V1
Dry Fruits	Determination of moisture Vacuum Drying Method	TS 485
Spices (Grain, Ground, Leaf) and Spice Mixtures, Sesame, Seasonings,	Determination of Aflatoxin B1 and Total Aflatoxin (B1+B2+G1+G2) HPLC-FLD Method	R-Biopharm A9-P07.V3
Spices (Grain, Ground, Leaf) and Spice Mixtures, Sesame, Seasonings,	Essential Oil Analysis	TS EN ISO 6571
Spices (Grain, Ground, Leaf) and Spice Mixtures, Sesame, Seasonings,	Determination of Ash Content	TS 2131 ISO 928
Spice Crispy Cookie chips	Determination of Moisture Toluene Method	AOAC 986.21 TS 2134





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Red Pepper, Black Pepper, Ginger, Turmeric, Nutmeg	Determination of Ochratoxin A HPLC-FLD Method	In-house Method - ML-6.01-887 (R-Biopharm, A3- P14.V4)
Corn Products	Determination of Fumonisin (FB1+FB2) HPLC-FLD Method	AOAC 2001.04 R-Biopharm A2- P31.V7
Coffee	Determination of Ochratoxin A HPLC-FLD Method	R-Biopharm A1- P14.V4 R-Biopharm A1- P14.V7
Coffee	Determination of Caffeine HPLC-UV/DAD Method	TS ISO 20481
Coffee	Determination of Ash Content	TS EN ISO 2171
Coffee	Determination of Water-Soluble Ash	TS 13423
Bean Coffee	Identification of Defective Grains	TS ISO 10470 TS ISO 3509
Bean Coffee, Soluble Coffee	Petroleum Ether Extract	TS 13423
Bean Coffee, Soluble Coffee	Determination of Water-Soluble Ash	TS 13423
Roasted Coffee	Determination of Foreign Matter and Defective Grains	TS ISO 10470 TS ISO 3509





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Food	Determination of Sucralose HPLC-RID Method	TS EN 16155
Food	Determination of Citric Acid HPLC-DAD Method	In-house Method - ML-6.01-176 (Modified source: Chelab MP-0369)
Food	Determination of Protein Content Kjeldahl Method	Gerhardt Application Notes
Food	Determination of Total Dietary Fiber Content	AOAC 991.43
Food	Determination of Total Sugar Content Lane Eynon Method Luff Schoorl Method	TS 1466 TS 12001 AOAC 920.64 AOAC 925.46
Food	Determination of Starch Content (Qualitative) Polarimetric Method	EC 213, 2001
Food	Determination of Water Activity Content	TS 7474 Aqua Lab Series 4TE
Food	Determination of Peroxides	AOCS Cd 8b - 90
Food	Determination of Crude Fiber	Gerhardt Application Notes D.7.1, D.7.b
Food	Determination of Ash Insoluble in 10% HCl	TS 2133 ISO 930, TS 2383, TS 7474, TS 4500, TS 2284, TS 4681, TS 2639, TS 5000, TS 4600 ISO 3720, TS 13423, TS ISO 763



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food	Determination of water soluble Synthetic Dyes E-102 Tartrazine / Acid Yellow 23, E-104 Quinoline Yellow / Acid Yellow 3, E-110 Sunset Yellow FCF, E-122 Carmosin (Azorubine) E-123 Amaranth / Acid Red 27, E-124 Ponceau 4R / Acid Red 18, E-127 Erythrosine B, E-128 Acid Red 1, E-129 Allura Red AC E-131 Patent Blue V / Acid Blue 3, E-132 Indigotine / Indigo Carmine, E-133 Brilliant Blue FCF / Acid Blue 9, E-142 Green S / Acid Green 50, E-151 Brilliant Black / Black PN] HPLC-UV/DAD Method	NMKL 130
Food (without Wine)	Determination of Lead (Pb), Cadmium (Cd), Arsenic (As), Mercury (Hg), Iron (Fe), Tin (Sn), Copper (Cu), Zinc (Zn), Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K), Aluminum (Al), Nickel (Ni) and Phosphorus (P) ICP-MS Method	NMKL 186
Food (Food (without cheeses)	Determination of Natamycin content HPLC-UV /DAD Metodu	In-house Method - ML-6.01-171 (Modified source: TS EN ISO 9233-2)
Gluten Free and Gluten Reduced Foods	Gluten Determination ELIZA Method Pretreatment:Protein Extraction	ELISA Kit Procedure (AOAC 2012.01 R-biopharm RIDASCREEN Gliadin R7001 Kit)
Food Additives	Determination of Sulphated Ash	Food Chem. Codex, 12th Edition





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Glucose Syrup, Dried Glucose Syrup, Dextrose Monohydrate, Dextrose Anhydrous,	Determination of Sulphated Ash	Turkish Food Codex No 2002/26
Fruit and Vegetable Products, Honey	Determination of HMF HPLC-UV/DAD Method	Harmonised Methods of the International Honey Commission
Fruit juices, Concentrated fruit juices and fruit nectars as reconstituted, Apple juice and solid apple products, including apple compote and apple puree, for infants and young children	Determination of Patulin HPLC-UV/DAD Method	TS EN 14177
Fruit and Vegetable Products	Determination of pH Potentiometric Method	TS 1728 ISO 1842
Fruit and Vegetable Products	Determination of Nitrite and Nitrate HPLC-UV/DAD Method	TS EN 12014-2
Fruit and Vegetable Products	Determination of Ash Content	TS EN 1135 TS 7630
Fruit Nectars, Juices and Concentrates, Soft Drinks	Determination of Lactic Acid Spectrofotometric Method	TS 3631 TS 4080 r-Biopharm UV method
Fruit and Vegetable Products Mayonnaise	Determination of Acidity	TS 1125 ISO 750 TS 9777
Animal and Vegetable Fats and Oils	Determination of Acidity	A.O.C.S Cd 3d-63
Animal and Vegetable Fats and Oils	Determination of Acidity as oleic acid	A.O.C.S Cd 3d-63





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Vegetable Oils	Determination of Salt Content Titrimetric Method	TS 2812
Vegetable Oils	Determination of Sterol Composition [Cholesterol, 24-methylene-cholesterol, Campesterol, Stigmasterol, Clerosterol, $\beta$ -sitosterol, Sitostanol, $\Delta$ -5-avenasterol, $\Delta$ -7-stigmastenol, $\Delta$ -7-avenasterol, Uvaol + Erythrodiol, $\Delta$ -5-24-stigmastadienol, Total $\beta$ -sitosterol, Total Sterol] GC-FID Method	COI/T.20/DOC. NO 30
Vegetable Oils	Cold Test	AOCS Cc 11-53



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Animal, Vegetable and Extractable Oils	Determination of Fatty Acid Methyl Esters – Trans Fatty Acids, Saturated Fatty Acids – Unsaturated Fatty Acids, - Monounsaturated Fatty Acids - Polyunsaturated Fatty Acids, Linolenik Asit (C18:3n6), Gadoleik Asit (C20:1), Linolenik Asit (C18:3n3), Heneicosanoic Asit (C21:0), Cis-11,14-Eicosadienoic Asit (C20:2), Behenik Asit (C22:0), Cis-8,11,14-Eicosatrienoic Asit (C20:3n6), Erusik Asit (C22:1n9), Cis-11,14,17-Eicosatrienoic Acid (C20:3n3), Tricosanoic Asit (C23:0), Arachidonic Asit (C20:4n6), Cis-13,16-Docosadienoic Asit (C22:2), Lignoserik Asit (C24:0), Cis-5,8,11,14,17-Eicosapentaenoic Asit (C20:5n3), Nervonik Asit (C24:1)Cis-4,7,10,13,16,19-Docosahexaenoic Asit (C22:6n3))(Bütrik Asit (C4:0), Kaproik Asit (C6:0), Kaprilik Asit (C8:0), Kaprik Asit (C10:0), Undecanoic Asit (C11:0), Laurik Asit (C12:0), Tridecanoic Asit (C13:0), Miristik Asit (C14:0), Miristoleik Asit (C14:1), Pentadecanoic Asit (C15:0), Cis-10-Pentadecanoic Acid (C15:1), Palmitik Asit (C16:0), Palmitoleik Asit (C16:1), Heptadekanoik Asit (C17:0), Heptadesenoik Asit (C17:1), Stearik Asit (C18:0), Elaidic Asit (C18:1n9t), Oleik Asit (C18:1n9c), Linolelaidic Asit (C18:2n6t), Linoleik Asit (C18:2n6c), Araşidik Asit (C20:0), Omega 3-6, EPA, DHA GC-FID Metodu	COI/T.20/Doc No 33



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Vegetable oils	Determination of Polar components	AOAC 982.27
Vegetable Oils	Determination of Tocopherols- Vitamin E ( $\alpha$ - $\beta$ - $\gamma$ - $\delta$ tocopherols) HPLC-FLD Method	IUPAC 2.432
Vegetable Oils	Determination of Iodine Count	AOCS Cd 1-25
Vegetable Oils	Determination of Peroxides	AOCS Cd 8b - 90
Vegetable Oils	Determination of Saponification Number	AOCS Cd 3 - 25
Vegetable Oils	Determination of Mineral Oil	TS 894
Vegetable Oils	Determination of Moisture and Volatile Matter	TS EN ISO 662
Vegetable Oils	Determination of Unsaponifiable Matter	AOCS Ca 6a-40
Vegetable Oils	Determination of Halogenated Solvent GC Method	COI/T.20/DOC.No:8 /CORR.1





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Vegetable Oils Butter	Determination of Polycyclic Aromatic Hydrocarbons ( Benzo (a) Pyrene, Benzo (b) Floranthene, Chrysanthemum, Benz (a) Anthracene ) GC-MS Method	In house Method- ML-6.01-186 (Chelab MP-0998)
Vegetable and Animal Oils	Determination of Refractive index	ISO 6320
Fats and Oils	Determination of Lovibond colour	TS ISO 15305
Olive Oil	Detection of extraneous oils GC-FID Method	COI/T.20/Doc No 25
Olive Oil	Detection of extraneous oils HPLC Method	COI/T.20/Doc No 25
Olive Oil	Determination of Fatty Acid Methyl Esters (FAME) and Fatty Acid Ethyl Esters (FAEE) GC-FID Method	COI/T.20/Doc No 28
Olive Oil	Determination of Waxes GC-FID Method	COI/T.20/Doc No 28
Olive Oil	Determination of Stigmastadienes GC-FID Method	COI/T.20/Doc No 16
Olive oil	Determination of Biophenolic Compounds HPLC-UV/DAD Method	COI/T.20/Doc No 29



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Olive Oil	Determination of Diacylglycerols (DAG) and Triacylglycerols (TAG) GC-FID Method	COI/T.20/Doc No 32
Olive Oil	Determination of ECN42 HPLC Method	COI/T.20/Doc. No.20
Olive Oil	Determination of 2-Glyceryl Monoplamitate GC-FID Method	COI/T.20/Doc No 23
Olive oil	Spectrophotometric Investigation in the Ultraviolet Spectrophotometric Method	COI/T.20/DOC. No.19
Cheese	Determination of Total Solid Content	TS EN ISO 5534
Cheese	Determination of Fat Content	TS ISO 3433
Cheese	Determination of pH Potentiometric Method	TS 2176
Cheese	Determination of Ash Content	AOAC 935.42
Cheese	Determination of Salt (Chloride) Content Potentiometric Method	TS EN ISO 5943





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Cheese	Determination of Natamycin content HPLC-UV/DAD Method	TS EN ISO 9233-2
Cheese	Determination of Nisin A content HPLC Method	ISO/TS 27106
Cheese	Determination of Weight	TGK 2015/6
Milk	Determination of Dirt	TS 1018
Yogurt	Determination of Fat and Non Fat Content	TS 1330
Milk Ayran	Determination of Dry Matter and Fat-Free Dry Matter	TS 1018
Milk Ayran	Density	TS 1018 TS 6800
Milk and Milk Products	Determination of Protein Kjeldahl Method	Gerh. App. Notes A.5.1.1.
Milk and Milk Products	Determination of Lactose HPLC-RID Method	ISO 22662





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Milk and Milk Products	Titrateable Acidity Determination	TS 6800, TS 1018, TS 1192, TS 591, TS 3001, TS 3002, TS 12513, TS 1330, TS 4680, TS 1329
Milk and Milk Products	Fat Determination Rose Gottlieb Method	TS EN ISO 7208 TS EN ISO 1736 TS EN ISO 1737 ISO 1211
Milk and Milk Products	Gelatin	AOAC 920.106
Milk and Milk Products	Calculated Energy and Nutritive Values	Turkish Food Codex Labeling Regulation (Date: 26.01.2017, No: 29960)
Milk and Milk Products	Determination of Vegetable Oils GC-FID Method	COI/T.20/DOC. NO 30 TS EN ISO 12228
Milk products and milk-based foods	Determination of Total Fat Weibull-Berntrop Gravimetric Method	TS ISO 8262-3
Ice Cream Edible Frosted Products	Dry substance determination	TS 4265 TS 11378
Meat and meat products	Moisture Determination	TS 1743 ISO 1442
Meat and Meat Products	Raw fat determination Acid hydrolyzed	Tecator Aplication Notes ASN 3121 Gerhardt Application Notes B.1.3



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Meat and Meat Products	Raw protein determination kjeldahl method	Gerhardt Application Notes A.1.1.3
Meat and meat products	Determination of collagen and hydroxyproline Spectrophotometric method	AOAC 990.26
Meat and meat products	Calculation of collagen bond tissue / raw protein ratio	Calculation
Meat and meat products	Calculation of moisture / raw protein ratio	Calculation
Meat and meat products	Calculation of raw fat / raw protein ratio	Calculation
Meat and Meat Products	Determination of Nitrite and Nitrate HPLC-UV/DAD Method	TS EN 12014-4
Meat and Meat Products	Determination of Chloride Volhard Method	TS 1747-2 ISO 1841-2
Meat and meat products	pH determination potentiometric method	TS 3136 ISO 2917
Meat and Meat Products	starch determination polarymetric method	TS 6812, FAO 17 Food Analysis Page 238





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Meat and meat products	Ash determination	TS 1746 ISO 936
Meat and Meat Products	Calculation Analysis of Energy Value and Nutrient Amounts	Turkish Food Codex Labeling Regulation (Date: 26.01.2017, No: 29960)
Foods Containing No or Traces of Soy	Gluten Quantity Determination ELISA Method Pre-Process: Protein Extraction	ELISA Kit Procedure (R- biopharm RIDASCREEN FAST Soya R7102)
Canned Foods Tomato Paste Ketchup Pasta Sauce- Ready to serve	Headspace and Fill Ratio	TS 2664
Canned Foods Tomato Paste Ketchup Pasta Sauce- Ready to serve	Determination of Salt Content Titrimetric method	TS 382 TS 2664
Canned Foods Tomato paste Ketchup Pasta Sauce	Determination of Salt Content Titrimetric method	TS 2664
Sea Products	Determination of Histamine HPLC-UV/DAD Method	NMKL 196
Sea Products	Volatile Basic Nitrogen Content (TVB-N)	TGK 2012/73
Soft drinks	Determination of Quinine HPLC- DAD Method	TS 12625



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Honey	Determination of Electrical Conductivity	IHC (Chapter No 2)
Honey	Determination of Invert Sugar	TS 3036
Honey	Determination of Proline Spectrophotometric Method	IHC (Chapter No 10)
Honey	Determination of Electrical Conductivity	TS 861
Sugar	Conductivity Ash Determination	TS 861
Sugar	Determination of polarization value Polarymetric method	TS 861
Glucose Syrups	Determination of Moisture Content Vacuum Oven Method	TS 1208 ISO 1742
Jams	Headspace and Filling Rate	TS 3958, TS 4186, TS 4187, TS 4188, TS 5135, TS 5136
Black Tea	Determination of Total Powder Tea	TGK 2015/30 TS 12691





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Tea	Determination of Total Ash	TS 1564
Tea	Determination of the caffeine content HPLC-UV/DAD Method	TS ISO 10727
Tahini, Tahini Halva, Summer Halva	Tahini Amount (Sesame Oil and Tahini Amount)	TS 2589 TS 2590
Bread, Breadcrumbs, Puff Pastry	Determination of Salt content	TS 5000 TS 12117
Pulse	Determination of Moisture	TS ISO 24557
Mayonnaise Butter	Determination of Salt content Titrimetric method	TS 9777 TS ISO 1738
Olives Olive paste	Salt Determination Titrimetric method	TS 774 TS 7630
Nuts	Determination of Salt content Titchered method	TS 1279
Pickle	Salt Determination Titrimetric Method	TS 11112



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Feed Feed Ingredients	Determination of Crude Fiber	Gerhardth App Notes
Feed Feed Ingredients	Determination of Moisture Content	Commission Regulation (EC) No: 152/2009
Feed Feed Ingredients	Determination of Ash Content	TS ISO 5984
Feed Feed Ingredients	Determination of Fat Content	Tecator App. Notes ASN 3414 Gerhardt App. Notes 4.2
Feed Feed Ingredients	Determination of Protein Content	Gerhardt App. Notes 5.2.1
Feed Feed Ingredients	Determination of Salt Content Titrimetric method	TS 8674
Feed Feed Ingredients	Determination of Starch Content	EEC 123/6
Feed Feed Ingredients	Determination of Total Sugar Content	EC First Commission Directive No L 71/250
Feed Feed Ingredients	Determination of Calcium Titrimetric method	AOAC 927.02





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Feed Feed Ingredients	Calculated Metabolic Energy	TS 9610 Commission Regulation (EC) No: 152/2009
Feed Feed Ingredients	Determination of Total Phosphorus content	EC 152/2009
Feed Feed Ingredients	Determination of Peroxides	AOAC Cd 8b-90
Feed Feed Ingredients	Determination of dazlable protein	EEC Third Comm. Dir. 123/6/EEC
Feed Feed Ingredients	Degree of digestion	Calculation
Feed Feed Ingredients	Urea Spectrophotometric method	EEC, Second Comm.Dir,No L 54/19-20, 2009
Ceramic Substances and Materials in Contact with Food	Determination of Lead (Pb) and Cadmium (Cd) ICP-MS Method	TS EN 1388-1 84/500/EC TGK 2012/30
Plastic materials that come into contact with foodstuffs	Polymer Structure Analysis FTIR Method	ATR Aldrich Library
Plastic materials that come into contact with foodstuffs	Determination of Overall Migration Method 1 - Total Immersion	TS EN 1186-1, TS EN 1186-3 Method 1



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in- house methods)
Plastic materials that come into contact with foodstuffs	Determination of Overall Migration Method 2- Cell Method	TS EN 1186-1, TS EN 1186-3 Method 2
Plastic materials that come into contact with foodstuffs	Determination of overall migration Method 3- Pouch Method	TS EN 1186-1, TS EN 1186-3 Method 3
Plastic materials that come into contact with foodstuffs	Determination of overall migration Method 4- Reverse Pouch Method	TS EN 1186-1, TS EN 1186-3 Method 4
Plastic materials that come into contact with foodstuffs	Determination of overall migration Method 5- Fill Method	TS EN 1186-1, EN 1186-3: Method 5
Plastic materials that come into contact with foodstuffs	Determination of overall migration in Vegetable Oils Method 1 - Total Immersion	TS EN 1186-1, TS EN 1186-2 Method 1 International Olive Oil Council COI/T.20/Doc.No 33
Plastic materials that come into contact with foodstuffs	Determination of overall migration in Vegetable Oils Method 2- Cell Method	TS EN 1186-1, TS EN 1186-2 Method 2 International Olive Oil Council COI/T.20/Doc.No 33
Plastic materials that come into contact with foodstuffs	Determination of overall migration in Vegetable Oils Method 3- Pouch Method	TS EN 1186-1, TS EN 1186-2 Method 2 International Olive Oil Council COI/T.20/Doc.No 33
Plastic materials that come into contact with foodstuffs	Determination of overall migration in Vegetable Oils Method 4- Reverse Pouch Method	TS EN 1186-1, TS EN 1186-2 Method 2 International Olive Oil Council COI/T.20/Doc.No 33





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Plastic materials that come into contact with foodstuffs	Determination of overall migration in Vegetable Oils Method 5- Fill Method	TS EN 1186-1, TS EN 1186-2 Method 2 International Olive Oil Council COI/T.20/Doc.No 33
Plastic materials that come into contact with foodstuffs	Aluminum (Al), Nickel (Ni), Iron (Fe), Copper (Cu), Zinc (Zn), Barium (Ba), Lithium (Li), Manganese (Mn), Cobalt (Co) Release	InHouse Method- ML-6.01-907 (AP (89)1, TKG 2013/34, TS EN 13130-1, TS EN ISO 17294-1, Anonim 2009)
Plastic materials that come into contact with foodstuffs	Specific Migration [2,2-bis(4-hydroxyphenyl)propane (Bisphenol A)] HPLC-FLD Method	TS EN 14350-2 TS EN 14372
Plastic materials that come into contact with foodstuffs	Specific Migration of Primary Aromatic Amins (PAA) [(3,3'-DMB), (2,6-TDA), (4,4'-DPE), (4,4'-MDA), (2,4-TDA), (ANL), (m-PDA), (4-ABP), (4-CoT), (2,4,5-TMA), (4-CA), (BNZ), (4-M-mPDA), (4,4'-MDoT), (2-M-5-MA), (o-T), (2,4 DMA), (2,6 DMA)] LC-MSMS Method	EUR 24815 EN 2011
Plastic materials that come into contact with foodstuffs	Phthalate Determination (BBP, DBP, DEHP, DNOP, DIDP, DINP) GC-MS Method	InHouse Method - ML-6.01-909 Rev.3 (TS EN 14372)
Paper and Board intended to come into contact with foodstuffs	Determination of migration from paper and board using modified polyphenylene oxide (MPPO)	TS EN 14338



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Materials that come into contact with foodstuffs	Determination of color fastness (in distilled water, acidic, oily stimulant )	EN 646
Materials that come into contact with foodstuffs	Specific Migration Formaldehyde spectrophotometric method	EUR 24815 EN 2011
Food	Enumeration of Aerobic Plate Count pouring plaque technique	FAO Manual of Food Quality Control Ch.2
Food Feed	Enumeration of Aerobic Plate Count pouring plaque technique	TS EN ISO 4833-1
Food	Enumeration of Coagulase Positive Staphylococci - (Staphylococcus aureus and other species)	ISO 6888-1
Food Feed	Enumeration of <i>Enterobacteriaceae</i> EMS Technique	TS ISO 21528-1
Food Feed	Enumeration of <i>Enterobacteriaceae</i> colony count technique	ISO 21528-2
Food	Enumeration of <i>Escherichia coli</i> Colony Count Technique	TS ISO 16649-2
Food (Except Milk and Dairy Products) Feedingstuffs	Enumeration of <i>Escherichia coli</i> EMS Technique	ISO 16649-3





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food	Enumeration of <i>Escherichia coli</i> EMS Technique	ISO 7251
Food	Enumeration of Coliforms EMS Technique	TS ISO 4831
Food	Enumeration of Coliforms Colony Count Technique	TS ISO 4832
Food Feed	Enumeration of Yeast and Mold Colony count technique	ISO 21527-1 ISO 21527-2
Food	Enumeration of <i>Bacillus cereus</i> colony count technique	TS EN ISO 7932
Food	Enumeration of sulfite-reducing anaerobic bacteria colony count technique	ISO 15213
Food	Detection of <i>Listeria monocytogenes</i>	AOAC 2004.06 BioMeriux VIDAS <i>Listeria monocytogenes</i> II (LMO2)
Food	Detection of <i>Listeria monocytogenes</i>	TS EN ISO 11290-1
Food	Detection of <i>Listeria monocytogenes</i> / <i>Listeria</i> spp.	NF-N°BIO-12/18- 03/06 VIDAS <i>Listeria</i> Duo (LDUO)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food	Detection of <i>Listeria</i> spp	TS EN ISO 11290-1
Food	Enumeration of Fekal Coliforms Colony count technique	Hygiene alimentaire, Legislation et Reglementation, Les editions des Journaux officiels
Food	Enumeration of Lactic Acid Bacteria Colony count technique	ISO 15214
Meat and meat products	Enumeration of <i>Pseudomonas</i> spp. Colony count technique	TS EN ISO 13720
Food	<i>Detection of Escherichia coli</i> 0157	TS EN ISO 16654
Food	Detection of Heat Resistant <i>Campylobacter</i> spp.	AFNOR BIO 12/29- 05/10 BioMeriux VIDAS <i>Campylobacter</i> (CAM)
Food	Detection of Heat Resistant <i>Campylobacter</i> spp.	TS EN ISO 10272-1
Food	Detection of <i>Staphylococcal</i> Enterotoxins	AOAC 2007.06 BioMeriux VIDAS Set II
Food	Detection of <i>Salmonella</i> spp.	NF-BIO-12/32-10/11 VIDAS UP SPT





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food	Detection of <i>Salmonella</i> spp.	NF-BIO-12/16- 09/05 VIDAS Easy <i>Salmonella</i> (SLM)
Bread	Rope Spores EMS Technique	TS 5000
Baker's Yeast (Wet and Dry)	Rope Spores EMS Technique	TS 3522
Food Feed	Detection of <i>Salmonella</i> spp.	ISO 6579-1
Food	Detection of <i>Vibrio</i> spp. <i>Vibrio</i> cholerae, <i>Vibrio</i> parahaemolyticus, <i>Vibrio</i> vulnificus	ISO 21872-1
Milk and Milk Products Powder Baby food	Detection of <i>Cronobacter</i> spp.	ISO 22964
Environmental Surface Samples	Detection of <i>Salmonella</i> spp.	ISO 6579-1
Environmental Surface Samples	Enumeration of <i>Enterobacteriaceae</i> Colony count technique	ISO 21528-2
Environmental Surface Samples	Enumeration of Coliforms Colony count technique	TS ISO 4832



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Environmental Surface Samples	Enumeration of Aerobic Plate Count (30°C)	TS EN ISO 4833-1
Environmental Surface Samples	Detection of <i>Listeria monocytogenes</i>	TS EN ISO 11290-1
Environmental Surface Samples	Detection of <i>Listeria monocytogenes</i> / <i>Listeria</i> spp.	NF-N°BIO-12/18- 03/06 VIDAS <i>Listeria Duo</i> (LDUO)
Environmental Surface Samples	Detection of <i>Listeria monocytogenes</i>	NF-N°BIO-12/18- 03/06 VIDAS <i>Listeria Duo</i> (LDUO)
Environmental Surface Samples	Detection of <i>Listeria</i> spp.	NF-N°BIO-12/18- 03/06 VIDAS <i>Listeria Duo</i> (LDUO)
Environmental Surface Samples	Detection of <i>Listeria</i> spp.	TS EN ISO 11290-1
Water	Enumeration of Total Coliforms - Membrane Filter Method	SM 9222 B
Water	Enumeration of <i>E. coli</i> - Membrane Filter Method	SM 9222 H
Water	Detection and enumeration of intestinal enterococci - Membrane Filter Method	TS EN ISO 7899-2





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Water	Enumeration of Culturable Microorganisms (22°C)	TS EN ISO 6222
Water	Enumeration of Culturable Microorganisms (37°C)	TS EN ISO 6222
Water	Determination of Conductivity Electrometric Method	TS 9748 EN 27888
Water	Determination of Conductivity Electrometric Method	TS 9748 EN 27888 SM 2510 B
Food Feed	GMO Screening Analysis (p35S, tNOS, pFMV) with Real Time PCR Pretreatment:DNA Isolation	Kit Method (Eurofins GeneScan GMO Screen RT 35S/NOS/FMV (IPC) Test Kiti) ISO 21569 ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kit Manual, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Meat and meat products Gelatine	Detection of Fish DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Metodu (Congen Surefood ALLERGEN Fish Test Kit Manual) Kit Metodu (Qiagen Mericon Food Kiti, Surefood PREP Advanced Kiti) ISO 21571



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food Feed	Qualitative Research of Cotton Gene with Real-Time PCR Pretreatment:DNA Isolation	EURL Method (QT- TAX-GH-015), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Food Feed	Qualitative Research of Soybean Gene with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- TAX-GM-002), ISO 21569, ISO 24276 Kit Method (Eurofins GeneSpin DNA izolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kiti), ISO 21571
Food Feed	Qualitative Research of 281-24-236 Cotton Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GH-001a), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	Qualitative Research of 3006-210-23 Cotton Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT-EVE-GH-001b), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	Qualitative Research of GHB 614 Cotton Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT-EVE-GH-006), ISO21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food Feed	Qualitative Research of CV127 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT-EVE-GM-011), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	Qualitative Research of DP-305423-1 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-008), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Food Feed	Qualitative Research of MON87701 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-010), ISO 21569, ISO 24276 Kit Metodu (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	Qualitative Research of MON87708 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-012), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food Feed	Qualitative Research of MON87769 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-002), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	Qualitative Research of Maize Gene with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- TAX-ZM-002), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Food Feed	Qualitative Research of DAS40278-9 Maize Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-ZM-004), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Food Feed	Qualitative Research of DAS44406-6 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-015), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food Feed	Qualitative Research of DAS68416-4 Soy Event with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-013), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Food Feed	Qualitative Research of DAS81419-2 Soy Event Pretreatment:DNA Isolation	EURL Method (QT- EVE-GM-014), ISO 21569, ISO 24276 Kit Method (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit), ISO 21571
Food Feed	GMO Screening Analysis (pat) with Real Time PCR Pretreatment:DNA Isolation	EURL Method (QT- ELE-00-002), ISO 21569, ISO 24276 Kit Metodu (Eurofins Genespin DNA İzolasyon Kiti, Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit) ISO 21571
Meat and meat products	Meat Species Identification (Detection of Donkey DNA) with Real Time PCR Pretreatment:DNA Isolation	Kit Metodu(Bosphore SpeciesIdentification KitDonkey) Kit Metodu (QiagenMericon Food KitManuel)
Sports Food	Determination of Creatine Monohydrate and Creatine Hydrochloride	InHouse Method-- ML-6.01-911 (Determinazione Della Creatina e Della Creatinina in integratori Alimentari Mediante HPLC/UV Visible)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Meat and meat products chips Package soup	Determination of Monosodium Glutamate (MSG) (As Glutamic Acid) Spectrophotometric Method	R-Biopharm L-Glutamic Acid Colorimetric Method for the determination of L- glutamic acid in foodstuffs and other materials Cat. No. 10 139 092 035
Chocolate	Determination of Salt Content Titrimetric Method	AOAC 971.27
Carbonated Drinks	Determination of Carbon Dioxide	TS 2259
Food (In Extracted Fat)	Acidity	TS 2383, TS 8371, TS 2590, TS 7474, AOCS Cd 3d-63, TS 2589, TS 894
Wheat Flour	Acidity (as Sulfuric Acid)	TS 4500
Non-Alcoholic Beverages Fruit and Vegetable Juices	Density	TS EN 1131 TS 522
Food	Enumeration of Clostridium perfringens Colony count technique	ISO 7937





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Infant Formula and Baby Supplement Food Infant Formula and Follow on Formula Foods	Enumeration of Pseudomonas spp. Colony count technique	ISO/TS 11059
Beverages	Determination of Salt Content	AOAC 971.27
Milk and Milk Products	Determination of Non-Milk Fat GC-FID Method	TS EN ISO 17678
Salt	Determination of Ferrocyanide	EuSalt/AS004
Milk	Freezing Point	Funke Gerber CryoStar 1 ISO 5764
Food (without Wine)	Determination of Manganese (Mn), Chromium (Cr), Cobalt (Co), Selenium (Se) ICP-MS Method	NMKL 186
Milk and Milk products	Nitrite - Nitrate Determination HPLC-UV/DAD Method	NMKL 165
Honey molasses	Sugar Components (Fructose, Glucose, Sucrose, Maltose) Analysis HPLC-RID Method	Bestimmung des Gehaltes an den Sacchariden Fructose, Glucose, Saccharose, Turanose und Maltose. HPLC Verfahren, DIN 10758



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Sports Foods (Solid and Liquid), Energy Drinks, Soft Drinks (Gas-Non-Gas)	Caffeine Determination HPLC Method	Journal of AOAC International Vol.76, No.2
Environmental Surface Samples	Detection of Salmonella spp.	AFNOR BIO- 12/32- 10/11 (VIDAS UP <i>Salmonella</i> (SPT)
Environmental Surface Samples	Detection of Salmonella spp.	NF-BIO-12/16- 09/05 VIDAS Easy <i>Salmonella</i> (SLM)
Environmental Surface Samples	Detection of <i>Listeria monocytogenes</i>	AFNOR BIO-12/09- 07/02 VIDAS LMO2 AOAC 2004.02 BioMeriux VIDAS <i>Listeria monocytogenes</i> II (LMO2)
Food Feed	Qualitative Research of MON87751 Soy Event Pretreatment:DNA Isolation	EURL Method (QT-EVE-GM-016), ISO21569, ISO 24276 Kit Metodu(Eurofins GenespinDNA İzolasyon Kiti,Surefood PREPAdvanced Kiti,Qiagen MericonFood Kit), ISO21571
Food Feed	GMO Screening Analysis (bar) with Real Time PCR Pretreatment:DNA Isolation	EURL Method(EurofinsGeneScan GMOScreen RT IPC (LR)bar gene Kiti), ISO 21569, ISO24276 Kit Method(Eurofins Genespin DNA İzolasyon Kit Surefood PREP Advanced Kit, Qiagen MericonFood Kit) ISO 21571





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Meat and Meat Products Gelatine	Detection of Bovine DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Bovine) Kit Method (Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit Metodu)
Meat and Meat Products Gelatine	Detection of Pork DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Pork) Kit Method (Surefood PREP Advanced Kiti, Qiagen Mericon Food Kit Manuel)
Meat and Meat Products	Detection of Chicken DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Chicken) Kit Method (Qiagen Mericon Food Kit Metodu)
Meat and meat products	Detection of Turkey DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Turkey) Kit Method (Qiagen Mericon Food Kit Metodu)
Meat and Meat Products	Detection of Horse DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Horse) Kit Method (Qiagen Mericon Food Kit Metodu)
Meat and Meat Products	Detection of Sheep DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Sheep) Kit Method (Qiagen Mericon Food Kit Metodu)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Meat and Meat Products	Detection of Goat DNA with Real Time PCR Pretreatment: DNA Isolation	Kit Method (Bosphore Species Identification Kit Goat) Kit Method (Qiagen Mericon Food Kit Metodu)
Gluten Free and Gluten Reduced Foods	Gluten Determination ELIZA Method Pretreatment:Protein Extraction	ELISA Kit Prosedure (AOAC Official Method 2015.05 RIDASCREEN Gliadin Competitive R7021 Kit)
Food	Determination of Acesulfame K, Aspartame and Saccharin HPLC-UV/DAD Method	TS EN 12856
Food	Determination of Sorbic Acid, Benzoic Acid and PHB HPLC-UV/DAD Method	NMKL 124
Food	Determination of Sulfur Dioxide (SO <sub>2</sub> )	AOAC 990.28
Coffee Beans and Ground Coffee	Determination of water soluble matter (dry basis)	TS 13423
Soluble coffee	Alkalinity in water soluble ash	TS 5389
Vegetable oils	Determination of ether-insoluble impurities	IUPAC Method 2.604 TS EN ISO 663





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Vegetable oils	Determination of specific gravity	TS 894
Edible salt	Determination of sodium chloride	Food Chem. Codex, 7th Edition
Edible salt	Determination of Water Insoluble Substance	TS 933
Edible Salt	Determination of acid-insoluble matter	TS 933
Black tea	Determination of Moisture	TS 1562
Black tea Green tea	Determination of water extract	TS ISO 9768
Black Tea	Determination of water soluble ash	TS 1565
Black tea	Determination of alkalinity in water soluble ash	TS 1567



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Fermented milk products	Total specific microorganism count	TS ISO 7889
Environmental Surface Samples	<i>Escherichia coli</i> count Colony count technique	ISO 16649-2
Environmental Surface Samples	Enumeration of Coagulase Positive Staphylococci - (Staphylococcus aureus and other species) Colony count technique	ISO 6888-1
Environmental Surface Samples	Mold and Yeast Count Colony Count Technique	ISO 21527-2
Water	Sulfite-Reducing Anaerobic Bacteria ( <i>Clostridia</i> ) Searching and Counting Spores Membrane Filtration Technique	ISO 6461-2
Water	<i>Pseudomonas aeruginosa</i> Count Membrane Filtration Technique	ISO 16266
Tomato paste and tomato puree	Howard mold count	TS 1466
Food, Feed	GMO Screening Analysis (p35S, tNOS, pFMV, bar) with Real Time PCR Pretreatment:DNA Isolation	Kit Metodu (Bosphore GDOTarama S35- TNOS-FMV Test KitProtokolü), ISO21569, ISO 24276





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Food, Feed	GMO Screening Analysis (p35S, tNOS, pFMV, bar) with Real Time PCR Pretreatment:DNA Isolation	Kit Metodu(SureFood® GMOSCREEN 4plex35S/NOS/FMV +IACKit Protokölü), ISO21569, ISO 24276
Peanut-containing foods	Allergen Detection (Pea Gene Search) Real Time PCR Method Pre-Process: DNA Extraction	Inhouse Method- "ML-8.01-282(B.Brezna, L.Hudecova,T.Kucht a. Detectionof pea in food byreal timepolymerase chainreaction (PCR). EurFood Res Technol(2006) 222: 600-603
Food Environmental Surface Samples	Allergen Detection (Celery Gene Search) Real Time PCR Method Pre-Process: DNA Extraction	R- BiopharmSurefood AllergenCelery S3605
Meat and meat products	Type Detection & # 40; Search for Pig DNA & # 41; Real Time PCR Method Pretreatment: DNA extraction	Kit Method (R- BiopharmSureFood ® AnimalID Pork SENSPLUS V) Kit Metodu(Surefood PREPAdvanced Kiti,Qiagen MericonFood Kit Manuel)
Meat and meat products	Internal Organ and Foreign Tissue Detection Histological Method	TS 13511
Olive	Salt Determination Titrimetric Method	NMKL 178
Food (Cereals, legumes and by- products excluding starch and products )	Ash determination	NMKL 173



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Fruit and vegetable products	pH determination potentiometric method	NMKL 179
Cereal and grain products	Determination of Total Oil	Funke Gerber App. Notes TS 1330
Molasses, Juice Concentrate	Determination of Brix (Water-Soluble Solids) Refractometric Method	TS ISO 2173
Water	Fecal Streptococcus ( <i>Enterococcus</i> ) Count	TS EN ISO 11731
Food Environmental Surface Samples	<i>Escherichia Coli</i> O157H7	bioMerieux VIDASUP O157 ECPT
Water	Coliform Bacteria Count Membrane Filtration Technique	SM 9222 D
Food	Osmophilic yeast count	ISO 21527-2 (Water Activity <0,95)
Water	Elemental Determination (Sb, Al, As, Cu, Hg, Zn, Fe, Cd, Sn, Co, Cr, Pb, Mn, Ni, Se, Na, K, Mg, Ca, P) ICP-MS Method	NMKL 186 EPA 200.8





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Feed and Feed Additives	Elemental Determination (Pb, Cd, Hg, As, Al, Mn, Cu, Zn, Se, Fe, Mg, Na, Ca, P, K, Ni, Co, Cr) ICP-MS Method	NMKL 186 TS EN 15621
Paper and Cardboard Based Materials and Materials in Contact with Food	Specific Migration Elemental Determination (Pb, Cd, Hg, As) ICP-MS Method	TS EN 645 TS EN 645 TS EN 12498 NMKL 186
Light Bakery Products, Pudding	Determination of Propionic Acid and Propionates HPLC-DAD Method	Inhouse Method- ML-6.01-948-Rev00 (Modified MP 0299)
Edible Salt	Potassium Iodide (Classical) (Determination of Iodine (as Water Soluble KI))	TS 933
Cereals and Cereal Products, Oil Seeds and Products, Baby and Children's Supplementary Foods	Mycotoxin Analysis (Multiple) (Aflatoxin (B1, B2, G1, G2) Ochratoxin A (OTA) ZON, DON, Fumonisin (FB1+FB2), HT2, T2) LC-MS/MS Method	Inhouse Method- ML-6.01-949-Rev01 (Modified JasemManual)
Food Environmental Surface Samples	Detection of <i>Listeria monocytogenes</i>	AFNOR BIO-12/11- 03/04 bioMerieuxVIDAS <i>Listeria monocytogenes</i> II(LMO2)
Water	Coliform Bacteria Count Membrane Filtration Technique	ISO 9308-1



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### **HALAL ACCREDITATION SCOPE**

Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Water	Escherichia coli Count Membrane Filtration Technique	ISO 9308-1
Food	Salt Equivalent Content (Nax2,5) ICP-MS Method	NMKL 186
Cosmetic Products	Detection of <i>Escherichia coli</i>	ISO 21150
Cosmetic Products	Detection of <i>Pseudomonas aeruginosa</i>	ISO 22717
Cosmetic Products	Detection of <i>Staphylococcus aureus</i>	ISO 22718
Cosmetic Products	Detection of <i>Candida albicans</i>	ISO 18416
Cosmetic Products	Enumeration of Yeast and Mould	ISO 16212
Cosmetic Products	Enumeration and Detection of Mesophilic Aerobic Bacteria	ISO 21149





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<b>Testing Fields- Tested Materials/Products</b>	<b>Name of Test</b>	<b>Test Method (national, International standards, in-house methods)</b>
Cosmetic Products	Evaluation of the Antimicrobial Protection	ISO 11930
Chemical Disinfectants and Antiseptics	Evaluation of Bactericidal Activity Quantitative Suspension Test	TS EN 1276
Chemical Disinfectants and Antiseptics	Evaluation of Fungicidal Activity Quantitative Suspension Test	TS EN 1650+A1
Chemical Disinfectants and Antiseptics - Used in Veterinary Field	Evaluation of Bactericidal Activity Quantitative Suspension Test	TS EN 1656
Chemical Disinfectants and Antiseptics - Used in Veterinary Field	Evaluation of Fungicidal Activity Quantitative Suspension Test	TS EN 1657
Chemical Disinfectants and Antiseptics - Used in the Medical Area	Evaluation of Bactericidal Activity Quantitative Suspension Test	TS EN 13727+A2
Chemical Disinfectants and Antiseptics - Used in the Medical Area	Evaluation of Fungicidal Activity Quantitative Suspension Test	TS EN 13624
Detergents, Personal Care Products	Determination of Total Active Matter Content	TS 518



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Detergents, Personal Care Products	Determination of pH value	TS 518
Detergents, Personal Care Products	Determination of Density	TS 781 ISO 758
Fabric Softener	Determination of pH value	TS 6365 EN 1262
Detergents with Oxygen Based Bleaching Agents	Determination of Active Oxygen, Sodium Perborate, Sodium Percarbonate	In-house Method ML-13.01-009-Rev 6 (Modified source: DMO R-09.g )
Grease Remover and Cleaner	Determination of Free Alkaline Matter	TS 13396
Toilet Cleaner	Determination of Total Acidity (as Hydrochloric Acid and as Phosphoric Acid)	TS 13411
Soap	Determination of Chloride (as sodium) Content	TS 54
Soap	Determination of Fatty Acid Content	TS 54





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Soap	Determination of Acid Number	TS 54
Soap	Determination of Fatty Acids Titer Point	TS 54
Soap	Determination of Volatile Matter at 105 °C	TS 54
Soap	Determination of Unsaponified Fatty Matter	TS 54
Soap	Determination of Unsaponifiable and Unsaponified Matter	TS 54
Soap Detergents	Determination of Glycerol Content	TS ISO 1066 DMO R-05.1/13.05.2015
Biocidal Products	Determination of Active Iodine Content	TS 7344
Biocidal Products	Determination of Benzalkonium Chloride Content HPLC-UV/DAD Method	In-house Method ML-13.01-112-Rev 3 (Modified source: Determination of Benzalkonium Chloride in a Cosmetic - Thermo Application Note)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Biocidal Products	Determination of Active Chlorine Content	TS 3464
Biocidal Products	Determination of Sodium Hypochlorite Content	TS 3464
Biocidal Products	Determination of Hydrogen Peroxide Content	QATM 202B
Biocidal Products	Determination of Glutaraldehyde Content	Pharmaceutica Acta Helvetiae 69
Biocidal Products	Determination of Active Chlorine Content	TS 3464
Biocidal Products	Determination of Chlorhexidine Digluconate Content HPLC-UV/DAD Method	USP26 NF40
Biocidal Products	Determination of Benzalkonium Chloride (C8-C10-C12-C14-C16-C18 ) Content LC-MS/MS Method	In-house Method ML-13.01-119 Rev 2 (Modified source: Siliker Italy Method 004)





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Biocidal Products	Determination of Didecyldimethylammonium chloride ( C8-C10-C12 ) Content LC-MS/MS Method	In-house Method ML-13.01-119-Rev 2 (Modified source: Siliker Italy Method 004)
Biocidal Products	Determination of Ethyl Alcohol Content GC Method	AOAC 983.13
Biocidal Products	Determination of Methyl Alcohol Content GC Method	AOAC 983.13
Biocidal Products	Determination of Isopropyl Alcohol Content GC Method	AOAC 983.13
Biocidal Products	Determination of pH value	OECD Guideline For The Testing of Chemicals, 122 (26.07.13)
Biocidal and Cosmetic Products	Determination of Density	OECD Guideline For The Testing of Chemicals, 109 (27.05.95)
Biocidal and Cosmetic Products	Determination of Viscosity	TS ISO 6388
Detergents, Personal Care Products	Determination of Cationic Active Matter Content	In-house Method ML-13.01-004 Rev 5 (Modified source: DMO R-11.e/15.12.2009)



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Detergents, Personal Care Products	Determination of Anionic Active Matter Content	In-house Method ML-13.01-002-Rev 5 (Modified source: DMO R-09.g/29.12.2009)
Biocidal Products	Skin Irritation Test	OECD 439
Biocidal Products	Determination of Lactic acid HPLC-UV / DAD method	In-house Method ML-13.01-114 Rev 1 (Modified source: HYPRED, Lactic Acid Determination by HPLC, 2011)
Biocidal Products	Determination of Silver (Ag) ICP-MS Method	In-house Method ML-13.01-133 Rev.0 (Modified source: NMKL 186)
Biocidal Products	Determination of Sodium Percarbonate	DMO R-09.g/29.12.2009
Biocidal Products	Determination of Tetraacetythylenediamine	R G No: 22514, 27.12.1994
Biocidal Products	Determination of Paracetic acid	In-house Method ML-13.01-107 Rev.2 (Modified source: QATM 202B)
Biocidal Products Cosmetic Products	View, Piece, Fragrance and Color Control	In-house Method ML-13.01-132 Rev.0 (Modified source TS 7344 ,European Pharmacopoeia EP 10.8, Regulation (EC) No 1223/2009, TS 12439)





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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Biocidal Products	Determination of 5-chloro-2-methyl-4- isothiazolin-3-one (CMI)+2-methyl-4- isothiazolin-3-one (MI) HPLC DAD Method	In-house Method ML-13.01-116 Rev.1 (Modified source: for the analysis of 2-methyl-4-isothiazolin-3-one (MI) and 5-chloro-2-methyl-4-isothiazolin-3- one (CMI) in cosmetic products , NERI Technical Report No.297)
Biocidal Products	Determination of Quat Quaternary Ammonium Compounds, Benzyl-C12-18- Alkyldimethyl, Salts with 1,2- Benzisothiazol-3 & # 40; 2H & # 41; -one 1,1-Dioxide HPLC-DAD Method	In-house Method -ML-13.01-131 Rev.1 (Modified source: S. C, Johnson and Son, Inc. Worldwide Consumer Products RD&E Chemical Technology & Support Division Analytical Product Research Department Number: ARTM-WQI0597A Effective Date: 06/08/05)
Biocidal Products	Povidon iodine Determination	TS 7344 European Pharmacopoeia EP 10.8
Cosmetic Products Biocidal Products Cleaning Products	Determination of Heavy Metals (Lead (Pb), Cadmium (Cd), Antimony (Sb), Arsenic (As) Mercury (Hg)) ICP-MS Method	In house Method ML-13.01-133 Rev 0 (Modified source: NMKL 186)
Water	Determination of Chlorine Content Titrimetric Method	SM 4500-Cl <sup>-</sup> B
Water	Enumeration of Culturable Microorganisms (22°C)	TS EN ISO 6222



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Testing Fields- Tested Materials/Products	Name of Test	Test Method (national, International standards, in-house methods)
Water	Enumeration of Culturable Microorganisms (37°C)	TS EN ISO 6222
Water	Enumeration of E. coli Membrane Filter Method	SM 9222 H
Water	Enumeration of Total Coliforms Membrane Filter Method	SM 9222 B
Water	Detection and enumeration of intestinal enterococci Membrane Filter Method	TS EN ISO 7899-2
Water	Enumeration of Legionella Membrane Filter Method	TS EN ISO 11731