



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

**FORMÜL LABORATUAR HİZMETLERİ GIDA KİMYA DANIŞMANLIK ÇEVRE EĞİTİM SANAYİ VE TİCARET
LİMİTED ŞİRKETİ**

Central Address: İÇERENKÖY MAH. DEĞİRMEN YOLU CAD. BOSTANCI SANAYİ No:12/4 ATAŞEHİR/İSTANBUL 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-0717-T

Accreditation Date : 01.11.2013

Revision Date / Number : 13.05.2025 / 14

This certificate shall remain in force until **27.02.2026**, 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.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

 Test TS EN ISO/IEC 17025 AB-0717-T	FORMÜL LABORATUAR HİZMETLERİ GIDA KİMYA DANIŞMANLIK ÇEVRE EĞİTİM SANAYİ VE TİCARET LİMİTED ŞİRKETİ	
	Accreditation Nr: AB-0717-T Revision Nr: 14 Date: 13.05.2025	
	Testing Laboratory	
	Address : İÇERENKÖY MAH. DEĞİRMEN YOLU CAD. BOSTANCI SANAYİ No:12/4 ATAŞEHİR/İSTANBUL İstanbul / Türkiye	Phone : - Fax : - Email : sevilersoy@formullab.com Website : www.formullab.com

Food and Feed Products		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Oil Seeds and Products, Cereals and Cereal Products	Determination of Aflatoxin B ₁ and Total Aflatoxins (B ₁ +B ₂ +G ₁ +G ₂) HPLC-FLD Method	AOAC 991.31
Dried Fruits and Spices	Determination of Aflatoxin B ₁ and Total Aflatoxins (B ₁ +B ₂ +G ₁ +G ₂) HPLC-FLD Method	AOAC 999.07
Feed	Determination of Aflatoxin B ₁ and Total Aflatoxins (B ₁ +B ₂ +G ₁ +G ₂) HPLC-FLD Method	AOAC 991.31
Grain Based Baby Foods	Determination of Aflatoxin B ₁ HPLC-FLD Method	AOAC 2000.16
Milk and Milk-Based Baby Foods	Determination of Aflatoxin M ₁ HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.063 Rev:01" (Modified from AOAC 2000.08)
Cereals, Grain-based Products, Baby Supplementary Foods	Determination of Deoxynivalenol (DON) HPLC-UV/DAD Method	In-house Method "FORMÜL.SOP.01.054 Rev:03" (Modified from R-Biopharm A2-P50.V1 R-Biopharm A1-P50.V1 R-Biopharm A3-P50.V1)
Cereals, Grain-based Products, Baby Supplementary Foods	Determination of Zearalenone (ZON) HPLC-UV/DAD Method	Journal of AOAC International Vol.84 No:5
Roasted and water-soluble coffees	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.057-Rev:02" (Modified from R-Biopharm A1-P14.V9)
Spice	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.058-Rev:03" (Modified from R-Biopharm A20-P14.V4)
Baby Food	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.059-Rev:03" (Modified from R-Biopharm A9-P14.V4)
Cereals and Grains Products	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.060-Rev:02" (Modified from R-Biopharm A9-P14.V4)
Cocoa and cocoa products	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP.01.061-Rev:02" (Modified from R-Biopharm A6-P14.V7)



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Alcoholic Drinks	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP01.062-Rev:04" (Modified from R-Biopharm A11-P14.V6)
Feed	Determination of Deoxynivalenol (DON) HPLC-UV/DAD Method	In-house Method "FORMÜL.SOP01.052-Rev:02" (Modified from R-Biopharm A1-P50.V1)
Feed	Determination of Zearalenon (ZON) HPLC-FLD Method	In-house Method "FORMÜL.SOP01.053-Rev:01" (Modified from J.AOACVol. 84, No:5)
Corn and Grain Based Baby Foods	Determination of Fumonisin (B ₁ +B ₂) HPLC-FLD Method	In-house Method "FORMÜL.SOP01.056-Rev:02" (Modified from AOAC 2001.04)
Dried Fruits	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP01.073-Rev:02" (Modified from R-Biopharm A17-P14.V6)
Feed (Cat, Dog Food)	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP01.075-Rev:02" (Modified from R-Biopharm A18-P14.V5)
Feed (Except Cat, Dog Food)	Determination of Ochratoxin A HPLC-FLD Method	In-house Method "FORMÜL.SOP01.074-Rev:02" (Modified from R-Biopharm A18-P14.V5)
Fruit Juices and Purees, Alcoholic Beverages and Baby Foods	Determination of Patulin HPLC-UV Method	In-house Method "FORMÜL.SOP01.080-Rev:02" (Modified from R-Biopharm P250B/V2 R-Biopharm A1-P250.V1)
Food	Determination of Polycyclic Aromatic Hydrocarbons (PAH) (Benzo(a)pyrene, Chrysene, Benzo[a]anthracene, Benzo(b)fluoranthene) HPLC-FLD Method	In-house Method "FORMÜL.SOP01.124-Rev:02" (Modified from ISO 15753)
Food, Food Additives	Determination of Lead (Pb) and Cadmium (Cd) AAS-Graphite Furnace Method	In-house Method "FORMÜL.SOP01.031-Rev:02" (Modified from NMKL 161, TS EN 14084, OIV-MA-AS322-12)
Food, Food Additives	Determination of Arsenic (As) AAS-Graphite Furnace Method	In-house Method "FORMÜL.SOP01.032-Rev:02" (Modified from NMKL 166, TS EN 14627)
Food, Food Additives	Determination of Mercury (Hg) AAS-Hydride Generation Method	In-house Method "FORMÜL.SOP01.033-Rev:02" (Modified from NMKL 170, TS EN 13806)
Feed	Determination of Lead (Pb) and Cadmium (Cd) AAS-Graphite Furnace Method	NMKL 161 TS EN 14084
Feed	Determination of Arsenic (As) AAS-Graphite Furnace Method	NMKL 166 BS EN 16206



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Feed	Determination of Mercury (Hg) AAS-Hydride Generation Method	NMKL 170 BS EN 16277
Meat and Meat Products, Fruit and Vegetable Products and Baby Food	Determination of Nitrate and Nitrite HPLC-UV/DAD Method	NMKL 165
Food	Determination of Sorbic Acid and Benzoic Acid HPLC-UV/DAD Method	In-house Method "FORMÜL.SOP01.002-Rev:02" (Modified from NMKL 124)
Distilled Alcoholic Beverages And Non-Alcoholic Beverages	Determination of Alcohol (Ethanol) GC-FID Method	AOAC 984.14
Food	Determination of PHB (Ethyl para-Hydroxy Benzoates and Methyl Para-hydroxy benzoate) HPLC-UV/DAD Method	In-house Method "FORMÜL.SOP01.133-Rev:02" (Modified from NMKL 124)
Distilled Alcoholic Beverages	Determination of Methanol GC-FID Method	AOAC 968.09
Tea, coffee and soft drinks	Determination of Caffeine HPLC-UV/DAD Method	In-house Method "FORMÜL.SOP01.005-Rev:02" (Modified from Journal of AOAC International Vol.76 No.2)
Food	Determination of Acesulfame-K, Aspartame and Saccharin HPLC-UV/DAD Method	Journal of AOAC International Vol.76 No.2 syf: 268-274.
Food	Water-Soluble Synthetic Paint Woolen Thread Method	GMMAY S:94-107
Food	Determination of Phenolic Antioxidant (BHA, BHT) HPLC-UV Method	In-house Method "FORMÜL.SOP01.125 Rev:02" (Modified from AOAC 983.15)
Food	Determination of Sugar Composition (Glucose, Fructose, Sucrose, Maltose, Lactose, Sorbitol) HPLC-RID Method	AOAC 980.13 TS 13359 TS EN 12630
Food	Determination of Sucralose HPLC-RID Method	TS EN 16155
Milk Product, Baby Foods and Cereals Products (Powder)	Determination of Melamine HPLC-DAD Method	In-house Method "FORMÜL.SOP01.076 Rev:02" (Modified from R-Biopharm R-P111/V6)
Honey, Fruit and Vegetable Products	Determination of Hydroxymethyl Furfural (HMF) HPLC-DAD Method	IHC 2009, Section 5.1
Non-Alcoholic Beverages	Determination of Quinine HPLC-DAD Method	TS 12625



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Animal, Vegetable and Extracted Oils	Determination of Fatty Acid Composition (Butyric acid; Hexanoic acid; Octanoic acid; Decanoic acid; Undecanoic acid; Lauric acid; Tridecanoic acid; Myristic acid; Myristoleic acid; Pentadecanoic acid; Cis-10-pentadecanoic acid; Palmitic acid; Palmitoleic acid; Heptadecanoic acid; Cis-10-heptadecanoic acid; Stearic acid; Trans-9-elaidic acid; Cis-9-oleic acid; Linolelaidic acid; Linoleic acid; Arachidic acid; Gamma-linolenic acid; Eicosanoic acid; Linolenic acid; Heneicosanoic acid; Cis-11,14-eicosadienoic acid; Behenic acid; Cis-8,11,14-eicosatrienoic acid; Erucic acid; Cis-11,14,17-eicotrienoic acid; Cis-5,8,11,14-eicosatetraenoic acid; Trichosanoic acid; Cis-13,16-docosadienoic acid; Lignoceric acid; Cis-5,8,11,14,17-eicosapentaenoic acid; Nervonic acid; Cis-4,7,10,13,16,19-docosahexanoic acid) GC-FID Method	TGK 2014/53
Cereal and Cereal Products (Excluding Starch and Its Products, Seeds)	Determination of Ash	TS EN ISO 2171
Halvah	Determination of Moisture and Dry Matter Content (Vacuum Oven Method)	TS 1201 EN ISO 1741
Feed	Determination of Moisture and Dry Matter Content	Official Gazette No. 29955 (Regulation on sampling and analysis methods for official control of feed)
Meat and meat products	Determination of pH Potentiometric Method	TS 3136 ISO 2917
Cheese	Determination of pH Potentiometric Method	TS 2176
Fruit and vegetable products	Determination of pH Potentiometric Method	TS 1728 ISO 1842
Food Feed Environmental Samples Taken From Food Facilities	Aerobic Colony Count Pour Plate Technique	TS EN ISO 4833-1
Food Feed	Enumeration of Yeasts and Moulds Colony Count Technique	TS ISO 21527-1 TS ISO 21527-2
Food Feed	Enumeration of <i>Bacillus cereus</i> Colony Count Technique	TS EN ISO 7932
Food Feed	Enumeration of Sulfite-Reducing Bacteria Anaerobes Colony Count Technique	TS EN ISO 15213-1
Food Feed	Detection of <i>Escherichia coli</i> O157	TS EN ISO 16654
Food Feed	Enumeration of Coliform MPN Technique	TS ISO 4831
Food Feed	Detection of <i>Vibrio cholerae</i> Detection of <i>Vibrio parahaemolyticus</i>	ISO 21872-1
Food Feed	Enumeration of <i>Clostridium perfringens</i> Colony Count Technique	TS EN ISO 15213-2
Food Feed	Enumeration of <i>Escherichia coli</i> MPN Technique	TS EN ISO 16649-3



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Food Feed	Detection of <i>Campylobacter</i> spp.	TS EN ISO 10272-1
Food	Detection of Staphylococcal Enterotoxins	bioMérieux VIDAS SET2 30705
Meat and meat products	Enumeration of <i>Pseudomonas</i> spp. Colony Count Technique	TS EN ISO 13720
Food Feed	GMO Screening Analysis (p35S, tNOS, pFMV) Real Time PCR Method Pre-treatment: DNA Extraction	Kit Method (Bosphore GMO Screening Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Soybean Gene Screening Real Time PCR Method Pretreatment: DNA Extraction	Kit Method (Bosphore Soy Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Bosphore Maize-Soy-Cotton Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	MON87769 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-002) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	MON87701 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-010) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	MON87708 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-012) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	CV127 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-011) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DP-305423-1 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-008) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DAS 44406-6 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-015) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DAS 68416-4 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-013) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DAS 81419-2 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-014) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571



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Food Feed	MON87751 Soybean Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GM-016) TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Cotton Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	Kit Method (Bosphore Cotton Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Bosphore Maize-Soy-Cotton Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	GHB614 Cotton Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GH-006), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	3006-210-23 Cotton Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GH-001b), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	281-24-236 Cotton Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GH-001a), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Corn/Maize Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	Kit Method (Bosphore Corn/Maize Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Bosphore Maize-Soy-Cotton Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DAS 40278-9 Corn Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-ZM-004), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Tea	Determination of Moisture and Dry Matter Content	TS 1562
Cereal and Grain Products (excluding corn and legume)	Determination of Moisture and Dry Matter Content	TS EN ISO 712
Food Feed	Enumeration of Coliform Colony Count Technique	TS ISO 4832
Food Feed	Enumeration of <i>Escherichia coli</i> Colony Count Technique	TS ISO 16649-2
Food Feed	Detection of <i>Listeria monocytogenes</i>	TS EN ISO 11290-1
Food Feed	Enumeration of Coagulase Positive Staphylococci (<i>Staphylococcus aureus</i> and Other Species) Colony Count Technique	TS EN ISO 6888-1
Food Feed	Enumeration of <i>Enterobacteriaceae</i> Colony Count Technique	TS EN ISO 21528-2



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Milk and Milk Products Baby Food Formulas	Detection of <i>Cronobacter</i> spp	ISO 22964
Food Feed	Detection of <i>Salmonella</i> spp.	ISO 6579-1
Meat and meat products Gelatine	Species Identification (Determination of Pork Meat) Real Time PCR Method Pre-treatment: DNA extraction	Kit Method (Bosphore Species Identification Pork Kit) Kit Method (Bosphore Species Identification Kit Bovine-Pork V1) Kit Method (Magrev Tissue Genomik DNA Extraction Kit)
Meat and meat products Gelatine	Species Identification (Determination of Bovine Meat) Real Time PCR Method Pre-treatment: DNA extraction	Kit Method (Bosphore Species Identification Bovine Kit) Kit Method (Bosphore Species Identification Kit Bovine-Pork V1) Kit Method (Magrev Tissue Genomik DNA Extraction Kit)
Meat and meat products Gelatine	Species Identification (Determination of Fish Meat) Real Time PCR Method Pre-treatment: DNA extraction	Kit Method (Bosphore Species Identification Fish Kit) Kit Method (Magrev Tissue Genomik DNA Extraction Kit)
Meat and meat products	Species Identification (Determination of Chicken-Turkey Meat) Real Time PCR Method Pre-treatment: DNA extraction	Kit Method (Bosphore Species Identification Chicken-Turkey Kit) Kit Method (Magrev Tissue Genomik DNA Extraction Kit)
Meat and meat products	Species Identification (Determination of Horse-Donkey Meat) Real Time PCR Method Pre-treatment: DNA extraction	Kit Method (Bosphore Species Identification Horse-Donkey Kit) Kit Method (Magrev Tissue Genomik DNA Extraction Kit)
Bread yeast Bread	Enumeration of Rope Spores MPN Technique	TS 3522 TS 5000
Ready Dry Soup	Determination of Moisture and Dry Matter Content	TS 1252 EN ISO1666
Ground Coffee	Determination of Moisture and Dry Matter Content	TS 13423
Molasses	Determination of Ash	TS 3792
Ground Coffee	Determination of Ash	TS 13423
Feed	Determination of Ash	Official Gazette No. 29955 (Regulation on sampling and analysis methods for official control of feed)
Instant Coffee	Determination of pH Potentiometric Method	TS 5389
Instant Coffee	Determination of Moisture and Dry Matter Content (Vacuum Oven Method)	TS ISO 3726



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Food Feed	Detection of <i>Salmonella</i> spp 3M Molecular Detection System	AOAC 2016.01 3M Molecular Detection Assay (MDA) 2- Salmonella (AFNOR 3M 01/16- 11/16)
Food Feed	Detection of <i>Listeria monocytogenes</i> 3M Molecular Detection System	AOAC 2016.08 3M Molecular Detection Assay (MDA) 2 -Listeria monocytogenes (AFNOR 3M 01/15-09/16)
Food Feed	Detection of <i>Escherichia coli</i> O157 3M Molecular Detection System	AOAC 2017.01 3M Molecular Detection Assay (MDA) 2 - Escherichia coli O157 (including H7) (AFNOR 3M 01/18- 05/17)
Food Feed	Plant Specific Oilseed Rape Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	Kit Method (Bosphore Oilseed Rape Species Detection Kit), TS EN ISO 21569, TS EN ISO 24276 EURL Method (QT-TAX-BN-012), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	DP 073496-4 Canola Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-BN-009), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	GHB811 Cotton Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-EVE-GH-013), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Soybean Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-TAX-GM-009), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Cotton Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-TAX-GH-018), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	Plant Specific Corn/Maize Gene Screening Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-TAX-ZM-002), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571
Food Feed	MON94100 Canola Identification Analysis Real Time PCR Method Pre-treatment: DNA Extraction	EURL Method (QT-TAX-BN-014), TS EN ISO 21569, TS EN ISO 24276 Kit Method (Magrev Plant DNA Extraction Kit), TS EN ISO 21571

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