

# Hellenic accreditation System



Annex F1/2 to the Certificate No. 1111

## SCOPE OF ACCREDITATION

of the

**Hellenic Research & Innovation Centre**

**HRIC**

Institute of Food Safety

Of

**YIOTIS S.A**

Materials/Matrices Products Tested	Types of Test/Measured Properties	Applied Standards/Techniques
<b>CHEMICAL TESTING</b>		
Cereal based infant formulas	Determination of Vitamin A	In-house method HPLC DAD  5.4.1.2 Method of determination of fat-soluble vitamin A in cereal based infant formulas by HPLC-DAD
Milk based infant formulas	Determination of Pb, Cd, Fe	In-house method ICP-MS  5.4.1.1 Method of determination of Pb, Cd, Fe and As by ICP-MS  The method has been validated according to the criteria of EC 333/2007 and its modifications
Cereals and cereal based products	Determination of As	In-house method ICP-MS  5.4.1.1 Method of determination of Pb, Cd, Fe and As by ICP-MS  The method has been validated according to the criteria of EC 333/2007 and its modifications

Cereal and milk based Infant Formulas	Elemental determination of Mg , K, Na , Ca, Mn, Zn, P	In-house method ICP-MS 5.4.1.5 Method for determination Mg , K, Na , Ca, Mn, Zn, P in cereal and milk based infant formulas by Inductively Coupled Plasma Mass Spectrometry technique (ICP-MS)
Chocolate and milk powder	Fats	In-house methods 5.4.1.8 Method for the determination of total fat in chocolates applying Soxhlet extraction based on AOAC 963.15. 5.4.1.7 Method for determination of total fat in milk powder based on AOAC 932.0.6.
Cereals	Ash	In-house method 5.4.1.11 Ash determination in cereal products, modified AOAC 932.03
Cereal and milk based Infant Formulas	Proteins	In-house methods based on Kjeldahl 5.4.1.10 Method for the determination of nitrogen and proteins in milk powder based on Kjeldahl method - AOAC 935.39 5.4.1.9 Method for the determination of nitrogen and proteins in cereal based products according to Kjeldahl method - AOAC 935.39
Aqueous foods	Benzoic and Sorbic acid determination	In-house method HPLC-DAD 5.4.1.6 Method for the determination of Benzoic and Sorbic acid in aqueous foods by High Performance Liquid Chromatography coupled to Diode-Array Detector (HPLC-DAD)
Cereals and Legumes	Determination of 31 pesticide residues (Aldrin, Endrin, Dieldrin, p,p'-DDE, o,p'-DDT, p,p'-DDT, p,p'-DDD, alpha-Endosulfan, beta-Endosulfan, alpha-HCH (alpha-BHC), beta-HCH (beta-BHC), gama-HCH (Lindan), Heptachlor, Heptachlor-endo- epoxide, Chlorpyrifos, Chlorpyrifos-methyl, Cyfluthrin, Permethrin, Phenothrin, cis-chlordane, trans-chlordane, Tetramethrin, Cypermethrin, Methacrifos, Methoxychlor, Etofenprox, Hexachlorobenzene, Fenitrothion, Malathion, Diazinon, pirimiphos- methyl)	In-house GC-MS/MS 5.4.1.27 Method for the determination of pesticide residues in cereals and legumes by applying QuEChERS method and Gas Chromatography coupled to tandem Mass Spectrometry technique (GC-MS/MS)

Cereals and Cereal based products	Determination of aflatoxin B1, B2, G1, G2 and Ochratoxin A	In-house method LC-MS/MS 5.4.1.22 Method for the determination of aflatoxins and Ochratoxin in cereals and cereal based products by Liquid Chromatography coupled to tandem Mass Spectrometry technique (LC-MS/MS)
Plastic materials and articles intended to come into contact with food	Overall migration into aqueous food simulants (10% v/v ethanol) by total immersion	In-house method 5.4.1.26 determination of overall migration in aqueous food simulants by total immersion based on EN 1186-3:2002
Plastic materials and articles intended to come into contact with food	Overall migration for plastics intended to come into contact with fatty foodstuffs using test media 95% ethanol	In-house method 5.4.1.25 determination of overall migration in aqueous simulants (cell-method) based on EN 1186-14:2002
Water for human consumption, surface waters, aqueous solutions and foods	pH	In-house method 5.4.1.23 Determination of pH in water for human consumption, surface waters, aqueous solution and food, based on APHA 4500-H+, version 1/24-07-2018
Water for human consumption, surface waters, aqueous solutions and foods	Conductivity	In-house method 5.4.1.24 determination of pH in water for human consumption, surface waters, aqueous solution and food, based on APHA-2510, version 1/24-07-2018.
Water for human consumption drilling water, surface water, bathing water	Determination of Cd, Pb, Cu, Al, Co, Se, Sb, Mn, Fe, As, Ni, Zn, Sn, Mo, Hg, Cr	In-house method ICP-MS 5.4.1.14 determination of Cd, Pb, Cu, Al, Co, Se, Sb, Mn, Fe, As, Ni, Zn, Sn, Mo, Hg and Cr in water by using Inductively Coupled Plasma Mass Spectrometry technique (ICP-MS)
<b>MICROBIOLOGICAL TESTING</b>		
Food Products	Detection of <i>Salmonella</i> spp	VIDAS Easy Salmonella NF VALID Ref. BIO 12/16-09/05
	Detection of <i>Listeria monocytogenes</i>	VIDAS Listeria monocytogenes II (LMO2) NF VALID Ref. BIO 12/11-03/04
Food and animal feeding stuffs	Colony count at 30°C	ISO 4833-1:2013

	Enumeration of presumptive <i>Bacillus cereus</i>	ISO 7932:2004
	Enumeration of coagulase -positive staphylococci ( <i>Staphylococcus aureus</i> and other species)	ISO 6888-2:1999/Amd 1:2003
	Enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2:2017
	Enumeration of $\beta$ -glucuronidase-positive <i>Escherichia coli</i> at 37°C	ChromID™ Coli Agar (COLI ID-F) NF VALID. BIO 12/19-12/06
Meat and products thereof	Enumeration of <i>Campylobacter</i> spp.	ISO 10272-2:2017
Fluids and powders	Detection of <i>Cronobacter</i> spp.	ISO 22964:2017
<b>BIOLOGICAL TESTING</b>		
Corn and Corn-based products (food, processed flours, feed, raw materials)	Qualitative detection of genetically modified organisms (GMO) by screening for P-35S and T-NOS by using real-time PCR instruments.	Internal method 5.4.1.30 by using real-time PCR and Foodproof_GMO_Screening_1_L yoKit
Soya and Soya-based products (food, processed flours, feed, raw materials)	Qualitative detection of genetically modified organisms (GMO) by screening for P-35S and T-NOS by using real-time PCR instruments.	Internal method 5.4.1.30 by using real-time PCR and Foodproof_GMO_Screening_1_L yoKit
Corn and corn-based products, Soya and Soya-based products	Qualitative detection of plant Endogenous DNA control using real-time PCR	Internal method 5.4.1.28 by using real-time PCR and Foodproof_Plant_Detection_Lyo Kit
Food products	Sandwich enzyme immunoassay for the quantitative analysis of gliadin/ in food.	Internal method 5.4.1.15 ELISA based on RidaScreen Gliadin R7001 kit (AOAC-OMA 2012.01)
Confectionary products, milk-based products, cereals, cocoa and chocolate products	Sandwich enzyme immunoassay for the quantitative analysis of peanuts or parts of peanuts in food	Internal method 5.4.1.29 ELISA based on Ridascreen Fast Peanut kit (AOAC #030404)

Site of assessment: **Laboratory permanent premises**

Approved signatories: **Efstratios Komaitis, Ioanna Koloni, Vasiliki Giatrakou.**

This scope of Accreditation replaces the previous one dated 21.12.2017.

The Accreditation Certificate No **1111**, to ELOT EN ISO/IEC 17025:2005, is valid until 20.12.2021.

Athens, 21.06.2019

Konstantinos Voutsinas  
Managing Director of E.SY.D.