Hellenic Accreditation System

Annex F1/10 to Certificate No. **1111**-3
SCOPE OF ACCREDITATION
of the
Hellenic Research & Innovation Centre (HRIC)
Institute of Food Safety
of
YIOTIS S.A.

Materials / Products Tested	Types of Test / Measured Properties	Applied Standards / Techniques
Chemical Tests		
1. Cereal-based baby food	Determination of Vitamin A	5.4.1.2 In-house high performance liquid chromatography method (HPLC-DAD)
2. Fortified Cereal and milk-based baby food and cocoa	Determination of Vitamin C	5.4.1.81 In-house high performance liquid chromatography method (HPLC-DAD)
3. Cereal and milk-based baby food, Farin Lactee type	Determination of Protein, Fat and Sugars	5.4.1.85 In-house chemometric method using FT-NIR Spectroscopy
4. Milk-based infant formulas	Determination of Pb, Cd, Fe, Ni	5.4.1.1 In-house inductively coupled plasma mass spectrometry method (ICP-MS)
5. Cereal-based and milk-based Infant Formulas	Determination of Mg, K, Na, Ca, Mn, Zn, P	5.4.1.5 In-house inductively coupled plasma mass spectrometry method (ICP-MS)
6. Cocoa, Chocolate products	Determination of Cd, Pb, Ni	5.4.1.1 In-house inductively coupled plasma mass spectrometry method (ICP-MS)
7. Cereals and cereal-based products	1. Determination of As, Cd, Pb, Ni	5.4.1.1 In-house inductively coupled plasma mass spectrometry method (ICP-MS)
	2. Ash determination	5.4.1.11 In-house method based on AOAC 923.03

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	3. Moisture determination	5.4.1.68 In-house gravimetric method
	4. Nitrogen and protein determination	5.4.1.9 In-house Kjeldahl method based on AOAC 935.39
	5. Total fat determination	5.4.1.64 In-house gravimetric method based on Weibull-Stoldt
	6. Total dietary fiber determination	5.4.1.65 In-house method based on AOAC 985.29
8. Chocolate	Total fat determination	5.4.1.8 In-house method based on AOAC 963.15
9. Milk powder	1. Total fat determination	5.4.1.7 In-house method based on AOAC 932.06
	2. Nitrogen and protein determination	5.4.1.10 In-house Kjeldahl method based on AOAC 935.39
10. Milk and milk products in liquid and powder form and infant formula	Fatty acids determination	5.4.1.63 AOAC 2012.13 with GC-FID
11. Foods of vegetable and animal origin	Fatty acids determination	5.4.1.80 In-house method based on ISO 12966
12. Food products	Determination of sugars (fructose, glucose, sucrose, maltose, lactose)	5.4.1.66 In-house high performance liquid chromatography method (HPLC-RID)
13. Aqueous foods	Benzoic and Sorbic acid determination	5.4.1.6 In-house high performance liquid chromatography method (HPLC-DAD)
14. Materials and articles intented to come into contact with food	1. Overall migration into aqueous food simulant A (10% v/v ethanol)	5.4.1.26 In-house method by total immersion based on EN 1186-3:2002
	2. Overall migration into food simulant (95% v/v ethanol)	5.4.1.25 In-house method by cell based on EN 1186-14:2002
	3. Specific migration of Bispenol A into aqueous simulants (A, B, C) and simulant D1 (50% ethanol)	5.4.1.67 In-house high performance liquid chromatography method (HPLC-FLD)
15. Water for human consumption, surface waters, aqueous solutions and foods	1. pH	5.4.1.23 In-house method based on APHA 4500-H+, 23rd edition
	2. Conductivity	5.4.1.24 In-house method, based on APHA-2510, 23rd edition
16. 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	5.4.1.14 In-house inductively coupled plasma mass spectrometry method (ICP-MS)

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	Determination of Chlorate (ClO_3^-)	5.4.1.82 In-house liquid chromatography with tandem mass spectrometry method (LC-MS/MS)
17. Thermally stressed foods (potatoes and their products, bakery ware)	Determination of acrylamide	5.4.1.49 In-house liquid chromatography with tandem mass spectrometry method (LC-MS/MS)
18. Fats and Oils (except from palm oil)	Determination of 5 Polycyclic Aromatic Hydrocarbons: (Benzo[α]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene and Chrysene)	5.4.1.45 In-house high performance liquid chromatography method (HPLC-FLD)
19. Cocoa	Determination of 5 Polycyclic Aromatic Hydrocarbons: (Benzo[α]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[a]pyrene and Chrysene)	5.4.1.46 In-house high performance liquid chromatography method (HPLC-FLD)
20. Bakery ware	Coumarin determination	5.4.1.62 In-house high performance liquid chromatography method (HPLC-DAD)
21. Cereals, legumes and their products	1. Pesticides residues determination (2-phenyl-phenol, Acetochlor, Alachlor, Aldrin, alpha-BHC, alpha-Endosulfan, Amitraz, Atrazine, Benalaxyl, Benfluralin, beta-BHC, Bifenazate, Bitertanol, Bromophos-ethyl, Bromuconazole, Bupirimate, Butralin, Cadusafos, Carboxin, Carfentrazone-ethyl, Chlofentezine, Chlorbenside, Chlorbufam, Chlorfenapyr, Chlorfenson, Chlorfenviphos, Chlorobenzilate, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Chlorthal-dimethyl, cis-Chlordane, Clomazone, Cyhalofop-butyl, Diallate, Diazinon, Dichlobenil, Diclofop-methyl, Dicloran, Dicofol-deg-DCPB, Dieldrin, Dimethachlor, Dimethenamid, Dimethomorph, Diniconazole, Dioxathion, Endrin, Ethalfluralin, Ethion, Ethofumosate, Ethoprophos, Etofenprox, Etoxazole, Fenamidone, Fenamiphos, Fenarimol, Fenchlorphos, Fenitrothion, Fenpropathrin, Fenthion, Fipronil, Fludioxonil, Flumioxazin, Flusilazole, gamma-BHC, Heptachlor, Heptachlor-endo-epoxide, Heptachlor-exo-epoxide, Hexachlorobenzene, Iprovalicarb, Mepanipyrim, Mepronil, Metazachlor, Methacrifos, Methoxychlor, Metolachlor, Myclobutanil, Napropamide, o,p-DDE, o,p-DDT, Oxadiazon, Oxadixyl, Oxyfluorfen, Paclobutrazol, Parathion, Parathion-methyl, Penconazole,	5.4.1.69 In-house gas chromatography tandem mass spectrometry QuEChERS method (GC-MS/MS)

Materials / Products Tested	Types of Test / Measured Properties	Applied Standards / Techniques
	Pendimethalin, Permethrin-2, Phenothrin-2, Piperonyl-butoxide, Pirimicarb, Pirimiphos-methyl, pp-DDD, p,p-DDE, p,p-DDT, Procymidone, Propachlor, Propamocarb, Propyzamide, Pyrazophos, Pyridaben, Pyridalyl, Pyriproxyfen, Quinalphos, Quintozene, Resmethrin-2, Simazine, Tebufenpyrad, Tecnazene, Tefluthrin, Terbufos, Tetradifon, Thiobencarb, Tolclofos-methyl, trans-Chlordane, Triadimefon, Triallate, Triazophos, Tricyclazole, Triflumizole, Trifluralin, Triticonazole, Vinclozolin, Zoxamide-deg)	
21. Cereals, legumes and their products (continued)	2. Pesticides residues determination (Acephate, Acetochlor, Alachlor, Ametoctradin, Amitraz, Atrazine, Azinphos-ethyl (Guthion ethyl), Benalaxyl, Bitertanol, Bromuconazole, Butralin, Cadusafos, Carbetamide, Carbofuran, Carboxin, Carfentrazone-ethyl, Chloridazon (Pyrazon), Chloroxuron, Chlorthiamid, Chromafenozide, Clethodim, Clodinafop-Propargyl, Clofentezin, Clomazone, Cyazofamid, Cymoxanil (Curzate), Dazomet, Desmedipham, Dichlorvos, Dimethenamide (SAN 582H), Dimethomorph(E), Diniconazole, Dinoseb, Diuron, Dodemorph, Eptc, Ethirimol, Ethoprop (Ethoprophos), Etoxazole, Fenamidone, Fenamiphos - sulfone, Fenamiphos - sulfoxide, Fenarimol, Fenazaquin, Fenchlorphos-oxon, Fenhexamid, Fenoxaprop-P, Fenthion, Fenthion-oxon, Fenthion-oxon-sulfoxide, Fenthion-sulfone, Fipronil, Florasulam, Flufenoxuron, Fluometuron, Fluopicolid, Flurtamone, Flusilazole, Forchlorfenuron, Imazalil (Enilconazole), Iprovalicarb, Isoxaben, Lenacil, Malathion, Mandipropamid, Mepanipyrim, Mepronil, Metaflumizone, Metamitron, Methabenzthiazuron, Methamidophos, Methiocarb (Mercaptodimethur), Methiocarb sulfone, Methiocarb sulfoxide, Metolachlor, Metribuzin, Mevinphos (Phosdrin), Molinate, Monocrotophos (Azodrin), Monolinuron (Phenylurea), Monuron, Myclobutanil, Napropamide, Novaluron, Oxadixyl, Oxamyl, Oxycarboxin, Paclobutrazol, Penconazole, Pencycuron, Pendimethalin (Penoxalin), Penoxsulam (Penoxalim), Pethoxamid, Phenmedipham, Phosphamidon, Phoxim, Piperonyl butoxide, Pirimicarb, Pirimifos-methyl, Profenofos, Propachlor, Propamocarb, Propanil, Propaquizafop, Propargite, Propham, Propoxur, Propyzamide (Pronamide), Proquinazid, Prosulfocarb, Pyrazophos, Pyridaben, Quinalphos (Diethquinalphione), Rotenone,	5.4.1.70 In-house liquid chromatography tandem mass spectrometry QuEChERS method (LC-MS/MS)

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	Simazine, Spirodiclofen, Tebufenpyrad, Teflubenzuron, Thiabendazole, Thiodicarb, Triadimefon, Triallate, Triazophos, Trichlorfon (DEP), Tricyclazole, Triflumizol, Triticonazole)	
Microbiological Tests		
1. Food Products	2. Detection of *Listeria monocytogenes*	VIDAS Listeria monocytogenes II (LMO2) NF VALID Ref. BIO 12/11-03/04
2. Food and feed	1. Detection of *Salmonella* spp.	VIDAS Easy Salmonella NF VALID Ref. BIO 12/16-09/05
	2. Colony count at 30°C	ISO 4833-1:2013
	3. Enumeration of presumptive *Bacillus cereus*	ISO 7932:2004
	4. Enumeration of coagulase - positive staphylococci (*Staphylococcus aureus* and other species)	ISO 6888-2:2017
	5. Enumeration of *Enterobacteriaceae*	ISO 21528-2:2017
	6. Enumeration of β-glucuronidase-positive *Escherichia coli* at 37°C	ChromID™ Coli Agar (COLI ID-F) NF VALID. BIO 12/19-12/06
	7. Enumeration of coliforms	ISO 4832:2006
	8. Enumeration of mesophilic lactic acid bacteria	ISO 15214:1998
	9. Enumeration of sulfite reducing bacteria	ISO 15213-1:2023
	10. Enumeration *of Clostridium perfringens*	ISO 15213-2:2023
	11. Enumeration of *Listeria monocytogenes* and *Listeria* spp.	ISO 11290-2:2017
	12. Detection of *Enterobacteriaceae*	ISO 21528-1:2017
	13. Detection of *Salmonella* spp.	Molecular Detection Assay 2 – MDA2SAL96 NF VALID. (3M 01/16 - 11/16)

Materials / Products Tested	Types of Test / Measured Properties	Applied Standards / Techniques
	14. Detection of *Listeria monocytogenes*	Molecular Detection Assay 2 – MDA2LMO96 NF VALID. (3M 01/15 - 09/16)
3. Foods in form of liquid or powder	1. Detection of *Cronobacter* spp.	ISO 22964:2017
	2. Detection of *Cronobacter* spp. (100g of sample)	
4. Potable water, surface, and swimming pool water	1. Enumeration of culturable micro-organisms at 22 ± 2°C and 36 ± 2°C	ISO 6222:1999
	2. Enumeration of *Escherichia coli* and coliform bacteria	ISO 9308-1:2014/Amd 1:2016
	3. Detection and enumeration of intestinal enterococci	ISO 7899-02:2000
	4. Detection and enumeration of *Pseudomonas aeruginosa*	ISO 16266:2006
	5. Enumeration of *Clostridium perfringens*	ISO 14189:2013
5. Environmental samples	1. Detection of Salmonella spp.	Molecular Detection Assay 2 – NF Validation 3M 01/16-11/16
Biological Tests		
1. Corn and corn-based products (food, processed flours, feed, raw materials)	Qualitative detection CaMV 35S promoter, NOS terminator, plant Endogenous DNA	5.4.1.30 & 5.4.1.28 In house real-time PCR method by using Foodproof_GMO_Screening_1_LyoKit, Foodproof_Plant_Detection_LyoKit
2. Soya and soya-based products (food, processed flours, feed, raw materials)	Qualitative detection of CaMV 35S promoter, NOS terminator, plant Endogenous DNA	5.4.1.30 & 5.4.1.28 In house real-time PCR method by using Foodproof_GMO_Screening_1_LyoKit, Foodproof_Plant_Detection_LyoKit
3. Rice and rice-based products (rice, rice-flour, processed rice products, feed)	Qualitative detection of CaMV 35S promoter, NOS terminator, plant Endogenous DNA	5.4.1.43 In house method by using Foodproof_GMO_Screening_1_LyoKit, Foodproof_Plant_Detection_LyoKit
4. Potato and potato-based products (raw materials, food, and feed)	Qualitative detection of CaMV 35S promoter, NOS terminator, plant Endogenous DNA	5.4.1.43 In house real-time PCR method by using Foodproof_GMO_Screening_1_LyoKit, Foodproof_Plant_Detection_LyoKit
Immunochemical Tests		
1. Food products	1. Quantitative determination of gluten/gliadin	5.4.1.15 In house ELISA method based on RIDASCREEN® Gliadin R7001

Materials / Products Tested	Types of Test / Measured Properties	Applied Standards / Techniques
		kit (AOAC-OMA 2012.01)
	2. Quantitative determination of allergen peanuts or parts of peanuts (sensitive)	5.4.1.29 In house ELISA method based on RIDASCREEN®Peanut R6811 (AOAC-RI 112102)
2. Chocolate and cocoa-based products, cereals, and cereal-based products	Quantitative determination of allergen hazelnut	5.4.1.48 In house ELISA method based on Eurofins SENSISpec ELISA Hazelnut kit (GDS)
3. Chocolate and cocoa-based products	1. Quantitative determination of allergen almond	5.4.1.47 In house ELISA method based on Eurofins SENSISpec ELISA Almond kit (GDS)
	2. Quantitative determination of allergen Pistachio (Pistacia vera)	5.4.1.74 In house ELISA method based on Eurofins SENSISpec ELISA Pistachio kit (GDS)
4. Flours, cereals, and cereal-based products	Deoxynivalenol (DON) determination	5.4.1.44 In house ELISA method based on RIDASCREEN® (AOAC PT #000701)
5. Flours, cereals, and cereal-based products	Zearalenone (ZON) determination	5.4.1.33 In house ELISA method based on Bio-Shield Zearalenone B2796
6. Cocoa powder, cocoa mass, coffee	Ochratoxin A determination	5.4.1.78 ELISA R1312 RIDASCREEN® (extraction with immunoaffinity columns)
7. Baby food and processed cereal-based food for infants and young children	Aflatoxin B1 determination	5.4.1.70 Bio-Shield B1 BF (Baby Food) B3196
8. Flours and bakery ware	Quantitative determination of allergen egg	5.4.1.56 In house ELISA method based on RIDASCREEN® Fast Egg R6402 (R-Biopharm Inc.)
9. Food and animal feeding stuffs	Detection and quantitative determination of allergen milk proteins	5.4.1.57 In house ELISA method based on RIDASCREEN® Fast Milk R4652 (AOAC PT #101501)
10. Flours and processed foods	Detection and quantitative determination of allergen soya proteins	5.4.1.58 In house ELISA method based on RIDASCREEN® FAST SOYA (R7102)

Site of assessment: **Laboratory permanent premises – Kifisou Av. 128, 121 31, Athens**
Approved signatories: **Dimitrios Ladikos, Ioanna Koloni, Vasiliki Giatrakou, Evangelia Krystalli**

This Scope of Accreditation replaces the previous one, dated 09.09.2024.
The Accreditation Certificate No. **1111**-3, according to ELOT EN ISO/IEC 17025:2017, is valid until 20.12.2026.

Athens, 29th of August 2025

Konstantinou Evangelos Apostolos
CEO of ESYD