Hellenic Accreditation System

Annex F1B/10 to the Certificate No. 489-5

SCOPE of ACCREDITATION

of the

Testing Laboratory in N. Ionia, Attiki

of

"Food Allergens Laboratory"

Tested materials/ products	Types of test/ Properties to be measured	Applied Methods/ Techniques to be used
Chemical Tests		
1. Drinking water, groundwater	1. Determination of pH	APHA* 4500-H, 22nd Edition 2012
	2. Determination of electric conductivity	APHA* 2510, 22nd Edition 2012
	3. Determination of pesticides: Acetamiprid, acetochlor, alachlor, aldicarb sulfone, atrazine, azoxystrobin, benalaxyl, benfsulfuron methyl, boscalid, bromuconazole, bupirimate, buprofezin, caduzafos, carbaryl, carbofuran 3 hydroxy, chlorfenvinfos, chloridazone, chlorobromuron, chlorsulfuron, chlortoluron, propargyl, clothianidin, cyanazine, cymoxanil, cyproconazole, demeton S methyl, dicrotophos, dimethomorph, dimoxystrobin, diphenamide, diuron, epoxiconazole, etaconazole, ethoprophos, fenamiphos sulfone, fenthion sulfone, florasulam, flufenacet, flumioxazine, fluometuron, fluopicolide, flurprimidol, flusilazole, flutolanil, flutriafol, formetanate HCl, fosthiazate, furathiocarb, haloxyfop methyl ester, heptenofos, hexythiazox, imazamethabenz methyl, imidacloprid, iprovalicarb, isazophos, isoproturon, kresoxim methyl, linuron, malaoxon, mepanipyrim, metalaxyl M, metamitron, metazachlor, metconazole, methabenzthiazuron, metobromuron, metolachlor, metoxuron, metribuzin, metsulfuron methyl, mevinphos-cis, mevinphos-trans, monocrotophos, monolinuron, myclobutanil,	Inhouse LC-MS/MS method (O 1052A)

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	napropamid, nuarimol, oxadixyl, oxamyl, paclobutrazole, paraoxon methyl, penconazole, phosphamidon, picoxystrobin, pinoxaden, pirimicarb, pirimicarb desmethyl, propachlor, propazine, propiconazole, propoxur, pymetrozine, pyrifenox, simazine, tebuconazole, tebufenpyrad, terbuthylazine, tetrachlorvinphos, tetraconazole, thiacloprid, thiamethoxam, thiobencarb, thiodicarb, triadimefon, triadimenol, triasulfuron, triazophos, tricyclazole, trifloxystrobin, uniconazole.	
2. Cereals & products	1. Determination of pesticide residues of the categories: Organophosphates, amides, triazoles, pyrethrins, triazines, strobilourines, carbamates, benzoylureas, phenylureas, benzimidazoles, neonicotinoids, organochlorines, pyrethroids, miscellaneous	Method code O 1008A. In house multiresidue LC-MS/MS and GC-MS/MS method based on QuEChERS method (European Union Reference Laboratory)
	2. Determination of phosphine residues	Inhouse GC-NPD (O 1051A) method, based on EU Reference Laboratory method
	3. Determination of mycotoxins: Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin, Zearalenone, Deoxynivalenon	Inhouse LC-MS/MS method (O 1022A) based on method of the EU Reference Laboratory
	4. Determination of non-dioxin like PCBs (PCBs 28, 52, 101, 138, 153, 180)	Inhouse GC-MS/MS method (O 1062A)
3. Products of cereals, coffee, potato chips	1. Determination of acrylamide	Method code O 1008A. In house multiresidue LC-MS/MS method based on QuEChERS method (European Union Reference Laboratory)
4. Plant products with high fat content: ▪ plant oils and fats ▪ oily seeds ▪ nuts ▪ miscellaneous (olive, avocado, etc.)	1. Determination of pesticide residues of the categories: Organophosphates, amides, triazoles, pyrethrins, triazines, strobilourines, carbamates, benzoylureas, phenylureas, neonicotinoids, pyrethroids, organochlorines, miscellaneous	Method code O 1007A In house multiresidue LC-MS/MS and GC-MS/MS method based on QuEChERS method (European Union Reference Laboratory)
	2. Determination of pesticide residues of: Aclonifen, Acrinathrin, Bromopropylate, Chlorthal dimethyl, Cyfluthrin, Lambda Cyhalothrin, Cypermethrin, Deltamethrin, α- Endosulfan, β-Endosulfan, Endosulfan sulfate, Fenvalerate, α-HCH, Tau-Fluvalinate, Heptachlor, Lindane, Oxyfluorfen, Procymidone, Propyzamide.	In house GC method, code O1007A), based on QuEChERS (European Union Reference Laboratory)
5. Fruits and Vegetables with high water content and their juices:	1. Determination of pesticide residues of the categories:	Method code O 1008A. In house multiresidue

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stone fruits, pome fruits, fruiting vegetables, citrus fruits, grapes, root-tuber vegetables, stem vegetables, small fruits, tropic fruits, pulses vegetables, brassica vegetables, bulb vegetables, leaf vegetables and fresh herbs, miscellaneous, as referred in Regulations EC 396/2005 and EC 178/2006.	Organophosphates, carbamates, triazines, triazoles, benzoylureas, phenylureas, neonicotinoids, amides, benzimidazoles, pyrethrins, strobilourines, organochlorines, pyrethroids, miscellaneous	LC-MS/MS and GC-MS/MS method based on QuEChERS method (European Union Reference Laboratory)
6. Honey	1. Determination of hydroxymethylfurfural (HMF)	HPLC method, Harmonised Methods of the International Honey Commission
	2. Determination of diastase activity with Phadebas	Photometric method, Harmonised Methods of the International Honey Commission
	3. Determination of moisture	Harmonised Methods of the International Honey Commission
	4. Determination of pH and free acidity	Harmonised Methods of the International Honey Commission
7. Plant oils	1. Determination of acidity	Method code O 1014A. In house method based on American Oil Chemists Society, Official method Ca 5a-40, 1997
	2. Determnation of peroxide value	In house method (O 1023A), based on American Oil Chemists Society, Official method AOCS Press, Method Cd 8-53.
	3. Determination of polyphenols	International Olive Council, COI/T.20/Doc No 29, November 2009
	4. Determination of alpha and gamma tocopherol (vitamin E)	In house HPLC-FLD method (O1034)
8. Plant fats and oils	1. Spectrophotometric UV analysis (k_{270}, k_{232}, Δk)	Regulation (EEC) No 2568/91, Annex IX, as in force
9. Plant & Animal Fats and oils	1. Determination of benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluoranthene, chrysene and their sum	Inhouse HPLC-FLD method (O1055A), based on the QuEChERS method

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	2. Determination of phthalate esters: dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diethyl-hexyl phthalate (DEHP), diethyl phthalate (DEP), dihexyl phthalate(DHP) και di iso nonyl phthalate (DiNP)	In house LC-MS/MS method (O1013A)
10. Alcoholic beverages	1. Determinaton of the phthalic esters: dibutyl phthalate (DBP), benzyl butyl phthalate (BBP) and diethyl-hexyl phthalate (DEHP)	Method code O1013A. In house LC-MS/MS method
11. Food	1. Determination of benzoic acid and sorbic acid	Inhouse method (O 1022A) based on ISO 22855:2008
12. Fish	1. Determination of benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluoranthene, chrysene and their sum	Inhouse method (O1055A) based QuEChERS με HPLC-FLD
	2. Determination of non-dioxin like PCBs (PCBs 28, 52, 101, 138, 153, 180)	Inhouse GC-MS/MS method (O 1062A)
13. Meat and meat products	1. Determination of benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluoranthene, chrysene and their sum	Inhouse method (O1055A) based QuEChERS με HPLC-FLD
Microbiological tests		
1. Food and animal feed	1. Detection of presumptive Salmonella enterica serovars of somatic groups A-E	Reveal 2.0 Salmonella Test System (Neogen Corporation) Validation Certificate AFNOR NEO35/01-10/11
2. Food	1. Detection of presumptive Listeria spp. (except L. grayi)	Reveal 2.0 listeria Test system (Neogen Corporation) Validation Certificate AOAC 041101
3. Raw ground beef and Raw beef trim	1. Detection of presumptive E. coli O157:H7	Reveal 2.0 E. coli O157:H7 Test system (Neogen Corporation) Validation Certificate AOAC 011103
Immunochemical Testing		
1. Packed foods	1. Determination of food allergen peanut protein	ELOT EN 15633-1:2009, ELISA KIT, "PEANUT ALLERGEN TEST", NEOGEN
	2. Determination of food allergen almond protein	ELΛOT EN 15633-1:2009, ELISA KIT, "ALMOND ALLERGEN TEST", NEOGEN
	3. Determination of food allergen hazelnut protein	ELOT EN 15633-1:2009,

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		ELISA KIT, "HAZELNUT ALLERGEN TEST", NEOGEN
	4. Determination of egg allergen protein	ΕΛΟΤ EN 15633-1:2009, ELISA KIT, "VERATOX EGG ALLERGEN", NEOGEN
	5. Determination of food allergen walnut protein	ΕΛΟΤ EN 15633-1:2009, "BIOKITS, WALNUT ASSAY KIT", NEOGEN
	6. Determination of total allergen gluten/gliadin	ΕΛΟΤ EN 15633-1:2009, ELISA KIT, "GLIADIN R5 TEST", NEOGEN
2. Packed foods and swabs	1. Determination of total allergen milk	ΕΛΟΤ EN 15633-1:2009, ELISA KIT, " TOTAL MILK", NEOGEN
3. Cereals, their products and swabs	1. Determination of total allergen soy	ΕΛΟΤ EN 15633-1:2009, ELISA KIT, " VERATOX FOR SOY", NEOGEN

* American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 22nd Edition, 2012

Site of assessment: **Laboratory Permanent premises, Varnali 40 (4st floor), 142 31, N. Ionia , Attiki, Greece.**
Approved signatory: **G. Siragakis, G. Miliadis, A. Lampidonis**

This Scope of Accreditation replaces the previous one dated 24.07.2018..
The Accreditation Certificate No. **489**-5, to **ELOT EN ISO/IEC 17025:2017**, is valid until 19.01.2022.

Athens, 03.05.2019

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