Hellenic Accreditation System

Annex F1/A32 to the Certificate No **139**-13

SCOPE of ACCREDITATION
of the
Analytical Laboratory in Arta
of
BIOLAB S.M.P.COMPANY

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
	Chemical Tests	
1.Drinking water , underground Surface	Detemination of Alkalinity	APHA *2320, 21st EDITION, 2005 Method Code: XN 33**
	Detemination of Bicarbonates	APHA *2320, 21st EDITION, 2005 Method Code: XN 33**
2. Drinking water	Ba (Barium)	In house method with AAS Method Code: XN 15**
3. Drinking water	Detemination of Se (Selenium)	In house method with AAS Method Code: XN 25**
4. Drinking water , underground Surface, wastewater	Detemination of Nitrates (in water with low carbon matter)	In house method based on APHA* 4500-NO_3 : 20th edition , 1998 (Ultraviolet Spectroscopy) Method Code: XN08**
	Detemination of Nitrites (in non processed waters)	In house method based on APHA* 4500-NO_2: 20th edition , 1998 (chromatometric – diazotization) Method Code: XN 06**
	Detemination of Ammonia	In house method based on APHA 417 B: 17th edition, 1989 (Nessler method) Method Code: XN 07**

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
4. Drinking water , underground Surface, wastewater (continue)	Detemination of Calcium ions	3111B, 3500Ca, A (APHA, Standard Methods 20th Ed. 2000) Method Code: XN 03**
	Detemination of Magnesium ions	In house calculating method based on 3500-Mg B (APHA ,Standard Method 21th Ed. 2005) Method Code: XN 04 **
	Detemination of Hardness	2340 C(APHA, Standard Methods 21th Ed. 2005) Method Code: XN 04**
	Detemination of easily liberated cyanide free cyanide	In house photometrick method based on Merck Spectroquant 1.09701 Method Code: XN 32**
	Detemination of surfactants (MBAS)	In house method based on EPA425.1 with MERCK Surfactatnts (anionic) test kit Method Code: XN 34**
	Detemination of Turbidity	In house method with LaMotte test kit Method Code: XN 31**
	Detemination of Free Chlorine	In house DPD METHOD with portable photometer Method Code: XN 30**
	Detemination of Color	In house with portable photometer Method Code: XN 36**
	Detemination of Permanganate Index (volume of $KMnO_4$ by titration)	ISO ΕΛΟΤ 827/1986 Method Code: XN 37**
	Detemination of B (Boron)	ISO ΕΛΟΤ 9390/1990 Method Code: XN 35*
	Detemination of Sulfate ions $-SO_4$	APHA 4500E ,21st EDITION, 2005 Method Code: XN 28**
	Detemination of Fe (Iron)	In house photometrick method with Merck kit test Method Code: XN 39**

	Detemination of Pb (Lead)
	        Cd (Cadmium)
	        Ni (Nikel)
	        As (Arsenic)
	        Co (Cobalt)
	        Sb (Antimony)
	        Cr (Chromium)
	        Ag (Silver)
	        V (Vanadium)
		In house method with AAS Method Code: XN 15**

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques

	Detemination of Na (Sodium)
	      K (Potassium)
	      Zn (Zinc)
	      Cu (Copper)
		In house method with FAAS
		Method Code: XN 14**

	Detemination of Mn (Manganese) Al (Aluminum)	In house method with AAS Method Code: XN 15**
4. Drinking water , underground Surface, wastewater (continue)	Detemination of Hg (Mercury)	In house method with HVG-AAS Method Code: XN 16**
	Detemination of Silicate ions (SiO)	Merck Kit test based on APHA 4500Si E , DIN 28405 D21 MERCK 1.14794.0001 Method Code: XN 44**
	Detemination of Dry Matter - TDS	In house based on APHA 2540C Method Code: XN 38**
	Detemination of Acidity (pH)	APHA* 4500-H$^+$: 20th edition , 1998 Method Code: XN 01 **
	Detemination of Electrical Conductivity	APHA* 2510: 20th edition , 1998 Method Code: XN 02 **
	Detemination of Phosphoric ions	4500 P, E (APHA, Standard Methods 21th Ed. 2005) Method Code: XN 10**
	Detemination of BOD$_5$	In house method with manometer, based on 5280D (APHA, Standard Methods 21th Ed.2005) Method Code: XN11
	Detemination of COD	ISO 15705 :2002 Method Code: XN 12
	Detemination of (SS) Suspended Solids	Method APHA: 2005, 2540D, 2-58 Method Code: XN 27
	Detemination of Chloride Ions –Cl$^-$	In house method APHA 4500-Cl B Method Code: XN 09**
	Detemination of Hexavalent Chromium Cr IV	In house method with UV/VIS Method Code: XN 13**
	Detemination of Fluoride (F)	In house method with UV/VIS ,test kit MERCK Method Code: XN 26**

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
4. Drinking water , underground Surface, wastewater (continue)	Detemination of Sulfides and Hydrogen Sulfide	Merck Kit test βασισμένο σε EPA 376.2, APHA 4500 S2-D, ISO 10530, DIN 38405 D26 MERCK 1.14779.0001 Method Code: XN 39 **
	Detemination of Total, Organic and Inorganic Nitrogen	In house method, calculated with individual determination of APHA 4500-N$_{org}$ APHA -NO3 APHA 4500-NO2 Method Code: XN 40
	Detemination of Total Organic Carbon (TOC)	Merck Kit test MERCK 1.14878.0001 Method Code: XN 41 **
	Detemination of Oil and Grease	In house method based on Standard Methods of Examination and Wastewater, 22nd Edition, Oil and Grease 5520B Method Code: XN 50
5. Sludge	Detemination of Pb (Lead) Cd (Cadmium) Ni (Nikel) As (Arsenic) Cr (Chromium)	In house method with AAS Method Code: XN 15**
	Detemination of Mn (Manganese) Al (Aluminum)	In house method with AAS Method Code: XN 15**
	Detemination of Zn (Zinc) Cu (Copper)	In house method with F AAS Method Code: XT 28
	Detemination of Hg (Mercury)	In house method with HVG-AAS Method Code: XN 16**
6. Fish, Cereals, Feed	Detemination of Hg (Mercury)	In house method with HVG-AAS Method Code: XT29
7. Food, Cereals, Feed	Detemination of Pb (Lead)	In house method with AAS

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
8. Food and Feed (Except dairy)	Detemination of Cd (Cadmium)	Method Code: XT 22
9. Cereals, Nuts	Detemination of As (Arsenic)	

11. Cereals, Feed, Vegetables	Detemination of
	    K (Potassium)
	    Fe (Iron)
	    Mn (Manganese)
	    Zn (Zinc)
	    Ca (Calcium)
	    Na (Sodium)
	    Cu (Copper)
		In house method with F AAS Method Code: XT 28

12.Food	Detemination of Sn – Tin	.In house method with GFAAS In house method Method Code: XT 73
13. Cereals, feedstuff	1. Determination of moisture	In house Method based on EC Regulation 152/2009, as amended and in force Method code: XT 02
	2. Determination of crude ash	In house Method based on EC Regulation 152/2009, as amended and in force Method code: XT 01
	3. Determination of crude oils and fats	In house Method based on EC Regulation 152/2009, as amended and in force Method code: XT 03
	4. Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04
14.Cheese	1. Determination of moisture	Food and Beverage Code, Volume II, Part B, Θ3.I and Γ1 Method code: XT 10
	2. Determination of fat	In house method, (Gerber method) Method code: XT 11
15. Milk	1. Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
	2. Determination of solid fat free residue	Food and Beverage Code, Volume II, Part B, Θ5
		Method code: XT 08
	3. Determination of fat	In house method (Gerber method)
		Method code: XT 09
16. Milk and Milk Products	Determination of nitrate and nitrite	Method based on ISO 14673-1:2004 (IDF 189-1:2004)
		Method code: XT 76
17.Milk and milk based products	Determination of antibiotic residues in milk by enzymatic DELVOTEST KIT	In house method by enzymatic DELVOTEST kit Methode code: X/T 41
	Determination of somatic cells	In house method based on DELAVAL TEST ANALYSER Method code: X/T 40
	Determination of Fat Protein Lactose Fat free solid residue (Total solids)	In house method based on Infrared spectrophotometer by automatic analyzer LACTOSCOPE Method code: XT 153
	Determination of freezing point of milk	In house method based on Thermal cryoscope CRYOTOUCH 20 Method code: XT154
18. Meat and meat products	1. Determination of moisture	ISO 1442:1997 Method code: XT 06
	2.Determination of ash	ISO 936 :1998 Method code: XT 05
	3.Determination of total fat	Food and Beverage Code, Volume II, Part B, I3 and Γ4 Method code: XT 07
	4. Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
19. Meat and meat products, Cold cuts	Determination of nitrate and nitrite	Method based on ISO 3091:1975 Method code: XT 76
20. Fruits and vegetables	Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04
21. Oils	1. Determination of peroxides	Commission Regulation (EEC) No. 2568/91, Annex III, as amended and in force Method code: XT 13
	2. Determination of moisture	Commission Regulation (EEC) No. 2568/91, Annex III, as amended and in force Method code: XT 12
	3. Spectrophotometric Examination in UV Determination K232 - K268 - ΔK	Commission Regulation (EEC) No. 2568/91, Annex III, as amended and in force Method code: XT 15
	4. Determination of acidity	Commission Regulation (EEC) No. 2568/91, Annex III, as amended and in force Method code: XT 14
	5.Determination of total polyphenols	In house UV-Vis spectrophotometric method Method code: XT 143
22.Μέλι	Determination of HMF (HydroxyMethylFurfural)	In house method UV-VIS Method code: XT-21
	Determination of Diastase Activity in Honey (Schade) (diastase index, diastase activity)	In house method UV-VIS Method code: XI-54
	Determination of pH	Potensiometric based on International Honey Commision (2002) Method code: X/T 48
	Determination of Free Acids	Volumetric based on International Honey Commision (2002) Method code: X/T 44

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
22.Μέλι (συνέχεια)	Determination of Electrical Conductivity	Potensiometric based on International Honey Commision (2002) Method code: X/T 43
23.Soil	Determination of exchangeable Ca,Mg K	In house method XT 33 ,based on Plant, Soil and Water Reference, Methods for the Western Region.1994 WCC-103 Publication WREP-125, 2 ndEdition , και **AAS Flame**
	Mechanical / granular composition Sand% Silt% Clay%	In house method XT 36 , Based on Plant, Soil and Water Reference, Methods for the Western Region.1994, WCC S14-10 , WCC-103 Publication WREP-125, 2 ndEdition
	pH	In house method XT 18 (Electrometric in saturation paste) based on WCC-103 Publication WREP-125, 2nd Edition
	Conductivity	In house method XT 19 (Electrometric in saturation paste) based on WCC-103 Publication WREP-125, 2nd Edition
	Organic matter	In house Method XT 20 (Walkley – Black, titrimetric) WCC-103 Publication WREP-125, 2 ndEdition
	Determination of total P (OLSEN)	In house Method XT 34 (OLSEN) Based on Plant, Soil and Water Reference, Methods for the Western Region.1994, WCC-103 Publication WREP-125, 2 ndEdition

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
23. Soil	Determination of nitrate nitrogen N-NO$_3$ (NO$_3$ $^{-1}$)	In house Method XT 35 , based on Plant, Soil and Water Reference, Methods for the Western Region.1994, WCC-103 Publication WREP-125, 2 ndEdition
24.Cosmetics , detergents , soap , chlorine , Dish washer liquid ,	Determination of pH	X/T 126 In house Method based on ISO 4316:1977
25.Detergents	Determination of anionic surfactants	X/T 133 Method based on ISO 2271:1989
	Determination of non ionic surfactants	X/T 134 Method based on ISO 2268:1972
	Determination of cationic surfactants	X/T 135 Method based on ISO 2871-2:2010
26.Soaps	Determination of Content of Ethanol Insoluble Matter	X/T 136 In house method based on ISO 673/1981
27.Detergents, Chlorine-Bleach	Determination of Active Chlorine (Sodium Hypochlorite)	X/T 129 Volumetric in house method
28.Cosmetics , oil, gel, shampoo	Determination of viscosity	X/T 127 In house method with viscosimeter ATAGO
29.Cosmetics	Determination of moisture	X/T 131 Volumetric Method with Karl-Fischer
30.Καλλυντικά , Χαρτί (noon food)	Determination of Heavy Metals Pb (Lead) , Cd (Cadmium)	X/T 128 In house method by GFAAS based on ISO/TR 17276
31. Paper	Determination of basis weight	X/T 130 In house gravimetric method
32.Juices	Determination of ascorbic acid	Method XT 32 In house Volumetric Method based on Nielsen S.S. (2017)
	Determination of acidity	Method XT 47 In house method based on Nielsen S.S. (2009)

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
33.Food	Determination of salt-salinity	Method XT 84 In house Volumetric Method, based on Food and Beverage Code, Volume II, Part B, Chapter E, Paragraph E5
	Determination of pH	Method XT 46 Potensiometricbased on AOAC 981.12.
	Determination of phosphoric acid	Method XT 82 In house Phasmatophotometric UV-Vis based on Narasazaru T.S.B., Singh R.P. (1970)
	Determination of ascorbic acid	Method XT 70 In house Phasmatophotometric UV-Vis based on Kaur G, Bajaj K.L. (1981)
	Determination of Boric Acid	Method XT 83 In house Phasmatophotometric UV-Vis based on curcumin-acetic acid method
	Determination of Total Volatile Basic Nitrogen (TVB-N)	Method XT 79 Based on EC Regulation 2074/2005
	Determination of Total Dietary Fiber	Method XT 71 Based on AOAC 985.29
	Determination of ethanol	XT 75 method based on MEGAZYME TEST KIT K-ETOH
34. Food - Fats	Determination of Peroxides	X/T 144 In house method UV-Vis based on test kit MenidiMedica
35. Standard and non-standard foods	Determination of total sulfur dioxide (SO2)	Volumetric Method, based on Food and Beverage Code, Chapter Δ, Paragraph Δ2 Method code: XT 30

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
42.Chicken	**Antibiotics screening** in **chicken**: Amoxicillin, Ampicillin, Penicillin-G, Cefquinome, Ceftiofur, Tylosin, Erythromycin, Lincomycin, Tilmicosin, Spiramycin, Oxytetracycline, Doxycycline Chlortetracycline, Sulphamethazine Sulphadiazine Sulphaguanidine Sulphapyridine, Sulphamethoxypyridine Sulphisoxazole Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Sulphametiozole Gentamicin, Streptomycin, Neomycine, Enrofloxacin, Flumequine ,Virginiamycin, Bacitracin ,Zn-bacitracin, Colistin, Salinomycin Monensin, Avilamycin,, Florphenicol, Chloramphenicol, Trimethoprim, Narasin Amprolium, Phosphomycine, Furazolidone	XT 155 Antibiotics screening based on PREMI KIT TEST
43.Eggs	**Antibiotics screening** in **eggs**: Amoxicillin,Ampicillin,Penicillin-G, Cloxacillin,Ceftiofur,TylosinErythromycin,Chlortetracycline,Oxytetracycline,Doxycycline ,Tetracycline,Sulphamethazine,Sulphadiazine ,Sulfamethoxazole,Gentamicin,Streptomycin, Neomycine,Chloramphenicol	XT 155 Antibiotics screening based on PREMI KIT TEST
44.Fish	**Antibiotics screening** in **fish**: Amoxicillin,PenicillinG,Erythromycin,Chlortetracycline,Oxytetracycline,Sulphamethazine ,Sulphadiazine,Sulfamethoxin,,Neomycine,Oxilinic acid, Florphenicol.Ronidazole	XT 155 Antibiotics screening based on PREMI KIT TEST
45.Honey	**Antibiotics screening** in **honey**: Amoxicillin, Ampicillin, Penicillin-G, Cloxacillin, Oxacillin, Cefquinome, Ceftiofur, Tylosin, Erythromycin, Lincomycin, Tilmicosin, Spiramycin, Chlortetracycline, Oxytetracycline, Doxycycline, Tetracycline, Demeclocycline, Sulphamethazine, Sulphadiazine, Sulphamethizole, Sulphaguanidine, Sulphadimethoxine, Sulphapyridine, Sulphamethoxypyridine, Sulphisoxazole, Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Gentamicin, Streptomycin, Neomycine, Enrofloxacin, Flumequine, Virginiamycin, Bacitracin, Florphenicol, Chloramphenicol, Trimethoprim	XT 155 Antibiotics screening based on PREMI KIT TEST

Microbiological tests

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
1.Water Potable , surface water, effluents, water from cooling towers and air conditioners	Enumeration of Legionella	ISO 11731 / 2017 Method code: M07
2. Water Potable, sea water, surface water, swimming pools, effluents-wastes	Ανίχνευση και καταμέτρηση των κοπρανωδών εντεροκόκκων	ΕΛΟΤ ΕΝ ISO 7899-2000 Method code: M-03*
	Ανίχνευση και καταμέτρηση κολοβακτηριοειδών και E. coli	ΕΛΟΤ ΕΝ ISO 9308-1:2014 Method code: M-01*
	Καταμέτρηση Clostridium perfringens	ISO 14189:2013 Method code: M-09
	Detection of Salmonella spp. (except for Typhi and Paratyphi)	ISO 19250:2010 Method code: M-06
3.Water potable, swimming pools	Enumeration of culturable microorganisms in 22 ºC and 37 ºC	ΕΛΟΤ ΕΝ ISO 6222:1999 Method code: M -02*
	Enumeration of Pseudomonas aeruginosa	ISO 16266:2006 Method code: M-05*
3. Food and feed	Enumeration of total plate count	ΕΛΟΤ ΕΝ ISO 4833-1:2013 Method code: MT -02
	Enumeration of coliforms	ΕΛΟΤ ΕΝ ISO 4832:2006 Method code: MT-01
	Enumeration of E. coli β-glucuronidase (+)	ΕΛΟΤ ΕΝ ISO 16649-2:2001 Method code: MT-12
	Enumeration of Staphylococcus coagulase (+)	ΕΛΟΤ ΕΝ ISO 6888-2/A1:1999 Method code: MT-04

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
36.Beer Wine Beverages Up to 94% Alcohol Strength	Determination of Alcohol Strength	Automated Alcoholic Distillator . Method code: XT 42
37.Fruits	Determination of dry matter	X/T 142 Gravimetric Method
	Determination of Brix	X/T 141 Brix Refractometer
38.Fruits and Vegetables	Determination of nitrate	Method XT 66 based on ISO 6635:1984
39. Herbal - essential oils	Determination of essential oil percentage	X/T 132 Clevenger Hydrodistillation based on E.P.
40.Pork meat	**Antibiotics screening** in pork: Amoxicillin, Ampicillin, Penicillin-G, Cloxacillin, Oxacillin, Cefquinome, Ceftiofur, Tylosin, Erythromycin, Lincomycin, Tilmicosin, Spiramycin, Chlortetracycline, Oxytetracycline, Doxycycline, Tetracycline, Demeclocycline, Sulphamethazine, Sulphadiazine, Sulphamethizole, Sulphaguanidine, Sulphadimethoxine, Sulphapyridine, Sulphamethoxypyridine, Sulphisoxazole, Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Gentamicin, Streptomycin, Neomycine, Enrofloxacin, Flumequine, Virginiamycin, Bacitracin, Florphenicol, Chloramphenicol	XT 155 Antibiotics screening in pork by PREMI KIT TEST
41.Beef	**Antibiotics screening in beef:** Amoxicillin,Ampicillin,Penicillin-G ,Cefquinome,Ceftiofur,Macrolides,Tylosin, Erythromycin,Lincomycin, Tilmicosin, Spiramycin,Tetracyclines,Chlortetracycline , Oxytetracycline,Doxycycline ,Sulphamethazine,Sulphadiazine, Sulphaguanidine,Sulphadimethoxine, Sulphapyridine,Sulphamerazine,Sulphaquino xaline,Sulphametiozole,Gentamicin,Streptom ycin,Neomycine,Enrofloxacin, Flumequine,Virginiamycin, Bacitracin,Florphenicol,Chloramphenicol	XT 155 Antibiotics screening based on PREMI KIT TEST

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
	Detection of *Listeria monocytogenes*	ΕΛΟΤ EN ISO 11290-1:2017 Method code: MT-06
	Enumeration of *Clostridium perfringens*	ΕΛΟΤ EN ISO 7937:2004 Method code: MT-08
	Detection and enumeration of *Enterobacteriaceae*	ISO 21528-2: 2017 Method code: MT-13
	Enumeration of *Bacillus cereus*	ISO 7932:2004 Method code: MT-19
	Enumeration of lactic acid bacteria 30 ºC	ISO 15214 / 1998 Method code: MT-22
4. Food and feed with a_w >0.95	Enumeration of yeast and mold	ISO 21527-1:2008 Method code: MT-15
5. Food and feed with a_w<0.95	Enumeration of yeast and mold	ISO 21527-2:2008 Method code: MT-21
6.Animal feces and environmental samles from primary production	1. Detection of *Salmonella spp.* (except for Typhi, Paratyphi)	ISO 6579-1 :2017 Method code: MT 05
7.Food and feed	1. Detection of *Salmonella spp.* (except for Typhi, Paratyphi)	ISO 6579-1 :2017 Method code: MT05
8.Poultry	Enumeration of Campylobacter spp	ISO 10272-2:2017 Method code: MT16
9.Water for haemodialysis and related therapies	Enumeration of aerobic microorganisms at 20 ºC ± 3 ºC	ISO 13959:2014 Method code: M11
10. Water for haemodialysis and ultrapure water for haemodialysis and related therapies	Enumeration of aerobic microorganisms at 20 ºC ± 3 ºC	ISO 11663:2014 Method code: M10
11. Cosmetics	Detection and enumeration of mesophilic plate count	Pharmacopoieia 9th edition, 9,8 Method code: COS01

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
11.Cosmetics	Enumeration of yeast and mould	Pharmacopoieia 9th edition, 9,8 Method code: COS06
	Enumeration of *Candida albicans*	Pharmacopoieia 9th edition 9,8 Method code: COS02
	Detection of *Staphylococcus aureus*	Pharmacopoieia 9th edition 9,8 Method code: COS03
	Detection of *Pseudomonas aeruginosa*	Pharmacopoieia 9th edition 9,8 Method code: COS04
	Detection of *Escherichia coli*	Pharmacopoieia 9th edition 9,8 Method code: COS05
	Evaluation of the antimicrobial protection of a cosmetic product (challenge test), by testing the following microorganisms • *Escherichia coli* • *Staphylococcus aureus* • *Candida albicans* • *Pseudomonas aeruginosa*	ISO 11930:2019 Method code: COS07

Sampling

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
1.Carcass sampling	Carcass sampling for microbiological analysis	ΕΛΟΤ EN ISO 17604:2015
2. Surface sampling by swabs	Horizontal methods for surface sampling	ISO 18593:2018
3.Potable tap water and groun water	Water sampling for chemical and microbiological analyses	ISO 5667-1:2006 ISO 5667-3:2018 ISO 19458:2006

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
4.Sea water and surface water	Water sampling for chemical and microbiological analyses	ISO 5667-9:1992, ISO 5667-14:2014 ISO 19458 :2006
5.Sludge sampling		ISO 5667-13:2011 ISO 5667-15:2009 ISO 19458:2006
6.Effluent sampling		ISO 5667:1992 ISO 19458:2006

Immunochemical tests

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
1.Processed foods	Detection of pork meat	In house method EL01 based on ELISA-TEK Cooked Pork Kit (510621, ELISA Technologies)
2. Processed foods	Determination of glouten	In house method ALRG01based on: 1.ΕΛΟΤ EN 15633-1:2019 2. RidaScreen Gliadin (R7001)
3.Cheese and related products	Determination of milk protein	In house method ALRG04 based on: 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Milk Assay (COKAL2448, Romer Labs)
	Determination of soy protein	In house method ALRG02 based on: 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Soy Assay (COKAL0448, Romer Labs)
	Determination of egg protein	In house method ALRG03 based on: 3. ΕΛΟΤ EN 15633-1:2009 4. AgraQuant Egg Assay (COKAL0848, Romer Labs)
	Determination of peanut protein	In house method ALRG05 based on: 3. ΕΛΟΤ EN 15633-1:2019 4. AgraQuant Peanut Assay (COKAL0148, Romer Labs)

Materials / Tested products	Kind of Test / Measured parameters	Applied methods/ Used techniques
3. Cheese and related products	Determination of almond protein	In house method ALRG06 based on: 1.ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Almond Assay (COKAL0748, Romer Labs)
	Determination of hazelnut protein	In house method ALRG07 based on 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Hazelnut Assay (COKAL0348, Romer Labs)
	Determination of walnut protein	In house method ALRG08 based on 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Walnut Assay (COKAL0948, Romer Labs)
	Determination of sesame protein	In house method ALRG10 based on 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Sesame Assay (COKAL1948, Romer Labs)
	Determination of mustard protein	In house method ALRG11 based on 1. ΕΛΟΤ EN 15633-1:2019 2. AgraQuant Mustard Assay (COKAL2148, Romer Labs)

* American Public Health Association, American Water Works Association, Water Environment Federation, "Standard Methods for the Examination of Water and Wastewater", 20th Edition, 1998 and 21st Edition 2005
(**) Methods highlighted with (**) have been assessed and conform to the performance criteria described in KYA Y2/2600/2001 , ΦΕΚ 892/Β/11.07.2001, its modification KYA Αριθμ. ΔΥΓ2 / Γ.Π οικ.38295 regarding the quality of drinking water.
***E.P. (Europea Pharmacopeia)

Site of assessement : **Permanent Laboratory premises, , Arta, Greece**
Approved signatory : **Sotiris Tzimas , Lenis Gregory , Harbi Sonia , Bika Sasa ,Tsiogka Dimitra**

This scope of Accreditation replaces the previous one dated 17.7.2019.
The Accreditation Certificate No.**139**-13, to ELOT EN ISO/IEC 17025:2017, is valid until 15.09.2023.

Athens, 16.3.2020

Spyridon Podaras
Managing Director of ESYD