Hellenic Accreditation System

Annex F1/A37 to the Certificate No. **139**-14

SCOPE of ACCREDITATION

of the
Testing Laboratory
of
"BIOLAB S.M.P. COMPANY"
in Arta

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
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**
Drinking water Surface water Biological water	Determination of Total Phenols	XN 52 In house method based MERCK Test Kit
	Determination of formaldehyde	XN 54 In house method based MERCK Test Kit
Swimming pool water	Determination of cyanouric acid	XN 53 In house method based MERCK Test Kit
2. 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**
	Detemination of Calcium ions	3111B, 3500Ca, A (APHA, Standard Methods 20th Ed. 2000) Method Code: XN 03**

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
2. Drinking water, underground, surface, wastewater (continued)	Determination of Magnesium ions	In house calculating method based on 3500-Mg B (APHA ,Standard Method 21th Ed. 2005) Method Code: XN 04 ****
	Determination of Hardness	2340 C(APHA, Standard Methods 21th Ed. 2005) Method Code: XN 04**
	Determination of easily liberated cyanide free cyanide	In house photometrick method based on Merck Spectroquant 1.09701 Method Code: XN 32**
	Determination of surfactants (MBAS)	In house method based on EPA425.1 with MERCK Surfactatnts (anionic) test kit Method Code: XN 34**
	Determination of Turbidity	In house method with LaMotte test kit Method Code: XN 31**
	Determination of Free Chlorine	In house DPD METHOD with portable photometer Method Code: XN 30**
	Determination 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**
	Determination of B (Boron)	ISO ΕΛΟΤ 9390/1990 Method Code: XN 35**
	Determination of Sulfate ions $–SO_4$	APHA 4500E ,21st EDITION, 2005 Method Code: XN 28**
	Determination of Fe (Iron)	In house photometrick method with Merck kit test Method Code: XN 39**
	Determination of Pb (Lead), Cd (Cadmium),Ni (Nikel),As (Arsenic), Co (Cobalt),Sb (Antimony),Cr (Chromium),Ag (Silver), V (Vanadium), Mn (Manganese), Al (Aluminum), Ba (Barium), Se (Selenium)	In house method with AAS Method Code: XN 15**
	Determination of Na (Sodium) K (Potassium) Zn (Zinc) Cu (Copper)	In house method with FAAS Method Code: XN 14**
	Determination of Hg (Mercury)	In house method with HVG-AAS Method Code: XN 16**

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
2. Drinking water, underground, surface, wastewater (continued)	Determination of Silicate ions (SiO)	Merck Kit test based on APHA 4500Si E , DIN 28405 D21 MERCK 1.14794.0001 Method Code: XN 44**
	Determination of Dry Matter - TDS	In house based on APHA 2540C Method Code: XN 38**
	Determination of Acidity (pH)	APHA* 4500-H^+: 20th edition , 1998 Method Code: XN 01 **
	Determination of Electrical Conductivity	APHA* 2510: 20th edition , 1998 Method Code: XN 02 **
	Determination of Phosphoric ions	4500 P, E (APHA, Standard Methods 21th Ed. 2005) Method Code: XN 10**
	Determination of BOD_5	In house method with manometer, based on 5280D (APHA, Standard Methods 21th Ed.2005) Method Code: XN11
	Determination of COD	ISO 15705 :2002 Method Code: XN 12
	Determination of (SS) Suspended Solids	Method APHA: 2005, 2540D, 2-58 Method Code: XN 27
	Determination of Chloride Ions –Cl^-	In house method APHA 4500-Cl B Method Code: XN 09**
	Determination of Hexavalent Chromium Cr IV	In house method with UV/VIS Method Code: XN 13**
	Determination of Fluoride (F)	In house method with UV/VIS ,test kit MERCK Method Code: XN 26**
	Determination 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 **
	Determination 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
2. Drinking water, underground, surface, wastewater (continued)	Determination of Total Organic Carbon (TOC)	Merck Kit test MERCK 1.14878.0001 Method Code: XN 41 **

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	Determination 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
	Determination of Ca, Mg and hardness (calculated)	In house method XN 45 based on: Standard methods of examination 3111 B Metals by FAAS
	Determination of SAR (calculated)	In house method XN 50
	Determination of dissolved oxygen	In house method XN 48 with ALPHA 4500-O and DO meter
3. Sludge	Determination of Pb (Lead), Cd (Cadmium), Ni (Nikel) , As (Arsenic), Cr (Chromium), Mn (Manganese), Al (Aluminum)	In house method with AAS Method Code: XN 15**
	Determination of Zn (Zinc) Cu (Copper)	In house method with F AAS Method Code: XT 28
	Determination of Hg (Mercury)	In house method with HVG-AAS Method Code: XN 16**
4. Fish, Cereals, Feed	Determination of Hg (Mercury)	In house method with HVG-AAS Method Code: XT29
5. Food, Cereals, Feed	Determination of Pb (Lead)	In house method with AAS Method Code: XT 22
6. Food and Feed (Except dairy)	Determination of Cd (Cadmium)	
7. Cereals, Nuts	Determination of As (Arsenic)	
8. Cereals, Feed, Vegetables	Determination 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

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
9. Food	Determination of Sn – Tin	X/T 73 GFAAS In house method
10. 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
	5. Determination of digestibility	In house method X/T 175 based on: IFOMA, International fishmeal & oil manufacturers association 2000-1, April 2000
11. Feedstuff	Determination of crude fiber	In house method X/T 185 based on: 1. Regulation 152/2009 and its modifications for the determination of methods of sampling and analysis for the official control of feed 2. Gerhardt Fibrebag system Crude fibre in Animal feed
12. Cheese	1. Determination of moisture	Food and Beverage Code, Volume II, Part B, Θ3.I and Γ1 Method code: XT 10
12. Cheese (continued)	2. Determination of fat	In house method, (Gerber method) Method code: XT 11
13. Milk	1. Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	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
14. Milk and Milk Products	Determination of nitrate and nitrite	Method based on ISO 14673-1:2004 (IDF 189-1:2004) Method code: XT 76
15. 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
16. Meat and meat products 16. Meat and meat products (continued)	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
	Determination of hydroxyproline-collagen (hydroxypropilne)	XT188 In house method UV/VIS based on ISO 3496:1994, AOAC OFFICIAL METHOD 990.26

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
17. Meat and meat products, Cold cuts	Determination of nitrate and nitrite	Method based on ISO 3091:1975 Method code: XT 76
18. Fruits and vegetables	Determination of protein	In house modified method, based on AOAC 991.20:2000 Method code: XT 04
19. 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	X/T 143 In house UV-Vis spectrophotometric method
20. Honey	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
20. Honey (continued)	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

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	Determination of Electrical Conductivity	Potensiometric based on International Honey Commision (2002) Method code: X/T 43
21. 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 onWCC-103 PublicationWREP-125, 2nd Edition
	Conductivity	In house method XT 19 (Electrometric in saturation paste) based onWCC-103 PublicationWREP-125, 2nd Edition
	Organic matter	In house Method XT 20 (Walkley – Black, titrimetric) WCC-103 PublicationWREP-125, 2 ndEdition
21. Soil (continued)	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, 2nd Edition

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	Determination of nitrate nitrogen $N\text{-}NO_3$ (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, 2nd Edition
22. Cosmetics , detergents , soap , chlorine , Dish washer liquid ,	Determination of pH	X/T 126 In house Method based on ISO 4316:1977
23. Soaps	Determination of Content of Ethanol Insoluble Matter	X/T 136 In house method based on ISO 673/1981
24. Detergents, Chlorine-Bleach	Determination of Active Chlorine (Sodium Hypochlorite)	X/T 129 Volumetric in house method
25. Cosmetics , oil, gel, shampoo	Determination of viscosity	X/T 127 In house method with viscosimeter ATAGO
26. Cosmetics , Paper (non food)	Determination of Heavy Metals Pb (Lead) , Cd (Cadmium)	X/T 128 In house method by GFAAS based on ISO/TR 17276
Cosmetics	Determination of density	In house methodX/T 176 based on: Manual of densimeter BA-200AD
27. Juices	Determination of ascorbic acid	Method XT 32 In house Volumetric Method based on Nielsen S.S. (2017)
28. Food	Determination of acidity	Method XT 47 In house method based on Nielsen S.S. (2009)
	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
28. Food (continued)	Determination of pH	Method XT 46 Potensiometricbased on AOAC 981.12.

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	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 casein	X/T 146 In house method UV-Vis based on MenidiMedica test kit
	Determination of starch	X/T 102 In house method UV-Vis based on MEGAZYME TEST KIT K-TSHK
	Determination of Lactose (free lactose <0,001%)	X/T 147 In house method UV-Vis based on MEGAZYME TEST KIT K-LOLAC
	Determination of ethanol	XT 75 method based on MEGAZYME TEST KIT K-ETOH
	Determination of Glutamic acid	In house method X/T 150 based on: K-GLUT L-Glutamic acid test kit, Megazyme
	Determination of cholesterol	In house method X/T 156 based on: Cholesterol test kit, R-Biopharm
29. Food - Fats	Determination of Peroxides	X/T 144 In house method UV-Vis based on test kit MenidiMedica
30. 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

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
31. Beer, wine, beverages up to 94% alcohol strength	Determination of Alcohol Strength	Automated Alcoholic Distillator . Method code: XT 42
32. Beer	Chemical analysis of beer using an automated beer analyzer: 1. Alcohol by weight 2. Alcohol by volume 3. Original wort 4. True extract 5. Density 6. Calculation of Plateau	In house method X/T 184 based on: Funke-Gerber Beer Analyzer manual
Beer, Soap	Determination of glycerol	In house method X/T 179 based on: K-GCROLGK Glycerol test kit, Megazyme
33. Fruits	Determination of dry matter	X/T 142 Gravimetric Method
	Determination of Brix	X/T 141 Brix Refractometer
34. Fruits and Vegetables	Determination of nitrate	Method XT 66 based on ISO 6635:1984
	Determination of Lactic acid	XT 31 In house method UV/VIS based on K-DLATE kit, megazyme
35. Herbal - essential oils	Determination of essential oil percentage	X/T 132 Clevenger Hydrodistillation based on E.P.
36. Cereals, feedstuff	Determination of starch	In house method X/T 102 based on test kit
37. Milk products	1. Determination of Lactose	In house method X/T 147 based on test kit
	2. Determination of Ca	In house method XT 28 with AAS

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
38. 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
39. 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,Sulphaquinoxaline,Sulphametiozole,Gentamicin,Streptomycin,Neomycine,Enrofloxacin, Flumequine,Virginiamycin, Bacitracin,Florphenicol,Chloramphenicol	XT 155 Antibiotics screening based on PREMI KIT TEST
40. 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

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
41. 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
42. 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
43. Honey	**Antibiotics screening** in **honey**: Chlortetracycline, Oxytetracycline, Doxycycline, Tetracycline, Demeclocycline, Sulphamethazine, Sulphadiazine, Sulphamethizole, Sulphaguanidine, Sulphadimethoxine, Sulphapyridine, Sulphamethoxypyridine, Sulphisoxazole, Sulphathiazole, Sulphachloropyridazine, Sulphamerazine, Sulphanilamide, Sulphaquinoxaline, Enrofloxacin, Flumequine, Trimethoprim	XT 155 Antibiotics screening based on PREMI KIT TEST
Sampling		
1. Potable tap water and groun water	Water sampling for chemical analyses	ISO 5667-1:2006 ISO 5667-3:2018 ISO 19458:2006
2. Sea water and surface water		ISO 5667-9:1992, ISO 5667-14:2014 ISO 19458 :2006
3. Sludge sampling		ISO 5667-13:2011 ISO 5667-15:2009 ISO 19458:2006
4. Effluent sampling		ISO 5667:1992 ISO 19458:2006
Immunochemical Tests		
1. Processed foods	Detection of pork meat	In house method EL01 based on ELISA-TEK Cooked Pork Kit (510621, ELISA Technologies)

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
2. Food , Raw marerials	Determination of gliadin /gluten	In house method ALRG01based on RidaScreen Gliadin (R7001) and according to ΕΛΟΤ EN 15633-1:2019
3. Cheese and related products	Determination of milk	In house method ALRG04 based on AgraQuant Milk Assay (COKAL2448, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of soy	In house method ALRG02 based on AgraQuant Soy Assay (COKAL0448, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of egg	In house method ALRG03 based on AgraQuant Egg Assay (COKAL0848, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2009
	Determination of peanut	In house method ALRG05 based on AgraQuant Peanut Assay (COKAL0148, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of hazelnut	In house method ALRG07 based on AgraQuant Hazelnut Assay (COKAL0348, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
3. Cheese and related products (continued)	Determination of almond	In house method ALRG06 based on AgraQuant Almond Assay (COKAL0748, Romer Labs) according to ΕΛΟΤ EN 15633-1:2019
	Determination of walnut	In house method ALRG08 based on AgraQuant Walnut Assay (COKAL0948, Romer Labs) according to ΕΛΟΤ EN 15633-1:2019
	Determination of Pistachio	In house method ALRG13 based on AgraQuant Pistachio Assay (10002086, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of sesame	In house method ALRG10 based on AgraQuant Sesame Assay (COKAL1948, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
3. Cheese and related products (continued)	Determination of mustard	In house method ALRG11 based on AgraQuant Mustard Assay (COKAL2148, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of Lupin	In house method ALRG18 based on AgraQuant Lupin Assay (10002049, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of Fish	In house method ALRG17 based on AgraQuant Fish Assay (10002083, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of Mollusk	In house method ALRG20 based on AgraQuant Mollusk Assay (10006023, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of Crustacea	In house method ALRG19 based on AgraQuant Crustacea Assay (10002076, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
4. Milk	Determination cow's milk (adulteration with cow's milk)	In house method ALRG15 based on Bioshield cow elisa kit (B1248/B1296, Prognosis Biotech)
	Determination of goat's milk (adulteration with goat's milk)	In house method ALRG16 based on Bioshield goat elisa kit (B1148/B1196, Prognosis Biotech)
Cheese and related products, starchy foodstuffs (cereal, pasta and pastries raw and final products , crackers , starchy fruits and vegetables) and spices	Determination of milk	In house method ALRG04 based on AgraQuant Milk Assay (COKAL2448, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of soy	In house method ALRG02 based on AgraQuant Soy Assay (COKAL0448, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of egg	In house method ALRG03 based on AgraQuant Egg Assay (COKAL0848, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2009

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
	Determination of peanut	In house method ALRG05 based on AgraQuant Peanut Assay (COKAL0148, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of hazelnut	In house method ALRG07 based on AgraQuant Hazelnut Assay (COKAL0348, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of almond	In house method ALRG06 based on AgraQuant Almond Assay (COKAL0748, Romer Labs) according to ΕΛΟΤ EN 15633-1:2019
	Determination of walnut	In house method ALRG08 based on AgraQuant Walnut Assay (COKAL0948, Romer Labs) according to ΕΛΟΤ EN 15633-1:2019
Cheese and related products, starchy foodstuffs (cereal, pasta and pastries raw and final products , crackers , starchy fruits and vegetables) and spices	Determination of sesame	In house method ALRG10 based on AgraQuant Sesame Assay (COKAL1948, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of mustard	In house method ALRG11 based on AgraQuant Mustard Assay (COKAL2148, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of Crustacean	In house method ALRG19 based on AgraQuant Crustacea Assay (10002076, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
Cheese and related products, starchy foodstuffs (cereal, pasta and pastries raw and final products , crackers , starchy fruits and vegetables) and spices	Determination of casein	In house method ALRG12 based on AgraQuant Casein Assay (10002037, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Determination of cashew	In house method ALRG14 based on Agraquant Cashew Assay (10002094, Romer Labs) and according to ΕΛΟΤ EN 15633-1:2019
	Detection of coconut	In house method ALRG25 based on Coconut Assay (CON-E01/E04, Eurofins) and according to ΕΛΟΤ EN 15633-1:2019

Tested materials / products	Types of Test / Properties to be measured	Applied standards / Techniques to be used
Milk powder, cheese and related products, starchy foodstuffs	Determination of melamine	In house method ALRG23 based on Melamine Assay (50005B, Eurofins Abraxis) and according to ΕΛΟΤ EN 15633-1:2019
Testιng of filters, softeners and membrane separation devices		
Active media filters - Water conditioning equipment inside buildings	• Static pressure and dynamic pressure (cartridge), dynamic pressure (filter & cartridge) and pressure drop • Chlorine reduction • Carbonate hardness reduction	Based on EN 14898+A1 (paragraphs 6.5, 6.6*) (internal method Φ 01) * Carbonate hardness reduction test is only included
Softeners - Water conditioning equipment inside buildings	• Static pressure and cyclic pressure • Chloride content • Total hardness	Based on EN 14743+A1 (7.1, 7.4.1, 7.4.2, 7.5.7) (internal method Φ 02)
Membrane separation devices of reverse osmosis (RO) - Water conditioning equipment inside buildings	Salinity rejection rate (NaCl)	Based on EN 14652:2005+A1:2007, (paragraph A.3.3) (internal method Φ 03)

* 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 that conform to the performance criteria described in ΚΥΑ Υ2/2600/2001, ΦΕΚ 892/Β/11.07.2001, its modification ΚΥΑ Αριθμ. ΔΥΓ2 / Γ.Π οικ.38295, regarding the quality of drinking water.
*** E.P. (European Pharmacopeia)

Site of assessement: **Permanent Laboratory premises – Agiou Artemiou 1, 47132, Arta, Greece**
Approved signatories: **Sotiris Tzimas , Lenis Grigoris, Stefou Elpida, Kapsala Fotini, Zaharou Chrisanthi, Ntekoume Dionisia.**

This scope of Accreditation replaces the previous one, dated 15.03.2024.
The Accreditation Certificate No. **139**-14, according to ELOT EN ISO/IEC 17025:2017, is valid until 15.09.2028.

Athens, 31.08.2026

Evangelos Apostolos Konstantinou
CEO of ESYD