Hellenic Accreditation System

Annex F1/16 to the Certificate No. **05**-4

SCOPE of ACCREDITATION

of the

Department of Toxicology, Residues and Environmental Contaminants and the Department of Food Hygiene

of the

Veterinary Center of Athens

of the

Ministry of Rural Development and Food

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
Chemical tests		
1. Meat, liver and kidney	Determination of cadmium (Cd) content	MD 01 In-house method using Atomic Absorbtion Spectrometry with Graphite Furnace (ZET-AAS)
2. Fisheries and fishery products	Determination of cadmium (Cd) content	MD 02 In-house method using Atomic Absorbtion Spectrometry with Graphite Furnace (ZET-AAS)
3. Fisheries and Fishery products	Determination of mercury (Hg) content	MD 06 In-house method using Atomic Absorption Spectrometry with Flow Injection – Mercury Hydride (FI-MH-AAS)
4. Fisheries	Determination of dyes: Malachite Green, Leucomalachite Green, Crystal Violet, Leucocrystal Violet, Brilliant Green	MD-21 In house LC-MS/MS method, validated according to the requirements of the Decision EU/657/2002.

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
5. Animal tissues	Determination of tetracycline residues (4): Tetracycline, Oxytetracycline, Chlortetracycline, Doxycycline, 4-Epichlortetracycline	MD-04 In house method based on the corresponding method of the European Community Reference Laboratory ANSES using High Performance Liquid Chromatography -Mass Spectrometry (LC-MS) (ESI-positive mode), validated according to the requirements of the Decision EU/657/2002.
6. Muscular tissues	Determination of quinolone residues (7): Ciprofloxacin, Danofloxacin, Difloxacin, Enrofloxacin, Flumequine, Marbofloxacin, Oxonilic acid	MD-26 In house method based on the corresponding method of the European Community Reference Laboratory ANSES using High Performance Liquid Chromatography with FLD (HPLC-FLD), validated according to the requirements of the Decision EU/657/2002.
7. Animal tissues	Determination of sulfonamide residues (10): Sulfadiazine, sulfathiazole, sulfamerazine, sulfadimidine, sulfamethoxypyridazine, sulfamonomethoxine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine, Na-sulfaclozine	MD-18 In house method based on the corresponding method of the European Community Reference Laboratory ANSES using High Performance Liquid Chromatography with DAD (HPLC-DAD), validated according to the requirements of the Decision EU/657/2002.
8. Milk	Determination of sulfonamide residues (7): Sulfadiazine, sulfamerazine, sulfadimidine, sulfamethoxypyridazine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine	MD-17 In house method based on the corresponding method of the European Community Reference Laboratory ANSES using High Performance Liquid Chromatography with Fluorescence Detector (HPLC-FLD), validated according to the requirements of the Decision EU/657/2002.
	Determination of Cd and Pb	MD-05 In house method using AAS, graphite furnace technique (ZETAAS)
9. Eggs	Determination of sulfonamide residues (8): Sulfadiazine, sulfathiazole, sulfamerazine, sulfamethoxypyridazine, sulfamethazine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine	MD-31 In house method using High Performance Liquid Chromatography – Tandem Mass Spectrometry (LC-MS) (ESI-positive mode), validated according to the requirements of the Decision EU/657/2002.

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
10. Urine, water	Determination of β-antagonists residues (17): zilpaterol, terbutalin, salbutamol, cimaterol, cibuterol, fenoterol, ritodrin, clencyclohexerol, clenproperol, clenbuterol, ractopamin, isoxsuprin, tulobuterol, clenpenterol, mabuterol, mapenterol, brombuterol	MD-29 In house method based on the corresponding method of the European Community Reference Laboratory BVL using High Performance Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS) (ESI-positive mode), validated according to the requirements of the Decision EU/657/2002.
11. Animal tissues	Determination of β-antagonists residues (17): zilpaterol, terbutalin, salbutamol, cimaterol, cibuterol, fenoterol, ritodrin, clencyclohexerol, clenproperol, clenbuterol, ractopamin, isoxsuprin, tulobuterol, clenpenterol, mabuterol, mapenterol, brombuterol	MD-10 In house method based on the corresponding method of the European Community Reference Laboratory BVL using High Performance Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS) (ESI-positive mode), validated according to the requirements of the Decision EU/657/2002.
12. Animal tissues	Determination of tranquilizers (antianxiety drugs) residues (7): acetopromazine, chloropromazine, xylazine, promazine, propionylopromazine, carazolol, azaperone, Azaperol	MD-03 In house method using High Performance Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS), validated according to the requirements of the Decision EU/657/2002.
13. Animal urine	Detection and determination of (6) antithyroid drugs (thiouracil, methyl thiouracil, propyl thiouracil, phenyl thiouracil, tapazol, mercaptobenzimidazol)	MD-23 In house method using LC-MS/MS after derivatization with 3-iodo-benzyl-bromide.
14. Foods of animal origin and their products	Determination of lead (Pb) content	MD-08 In – house method using Atomic Absorbtion Spectrometry with electrothermal Graphite Furnace.
15. Thyroid and animal tissues	Detection and determination of (6) antithyroid drugs (thiouracil, methyl thiouracil, propyl thiouracil, phenyl thiouracil, tapazol, mercaptobenzimidazol)	MD-32 In house method using LC-MS/MS after derivatization with 3-iodo-benzyl-bromide.

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
16. Honey	1. Determination of diastase index	AOAC 958.09:2005, revised January 2010
	2. Determination of free acidity	AOAC 962.19:2005
	3. Determination of hydroxymethylfurfural (HMF)	AOAC 980.23:2005
	4. Determination of Cd and Pb	MD-09 In house Z-ETAAS method
	5. Pollen identification and counting	MD-39 Pollen method according to International Honey Committee
	6.Determination of electrical conductivity	MD 56 Harmonised Methods of the International Honey Commission (2009), Method 2
	7. Determination of moisture	MD 55 Harmonised Methods of the International Honey Commission (2009), Method 2
17. Meat and blood serum	Determination of nitroimidazoles	MD-36 In house LC/MS-MS method based on Community Reference Laboratory BVL method
18. Tissue, milk and honey	Determination of organophosphorus pesticide residues	MD 38 In house LC-MS/MS method according to SANCO 12495/2011 document
19.Milk	Quantitative determination of aflatoxin M1	Code: MD-53 ISO 14501/IDF 171:2007 Immunoaffinity column HPLC / FLD method
20. Animal tissues	Quantitative determination of ochratoxin A	In house validated method Code: MD-54 Immunoaffinity column HPLC / FLD method

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
21. Milk and Muscle	Quantitative dete rmination of Avermectins (Moxidectin, Abamectin, Emamectin, Doramectin, Ivermectin)	Code: MD-46 In house method based on the corresponding method of the European Union Reference Laboratory BVL using High Performance Liquid Chromatography with Fluorescence Detector (HPLC-FLD), validated according to the requirements of the Decision EU/657/2002.
22. Kidney, Muscle and Milk	Quantitative determination of Aminoglykosides	Code: MD-15 In house method based on the corresponding method of the European Union Reference Laboratory ANSES using LC-MS/MS Validated in accordance with the requirements of the Decision EE/657/2002
23. Eggs	Quantitative determination of Antibiotics (β-lactam, macrolides, tetracyclines, quinolones, sulfonamides)	Code: MD-59 In house method based on the corresponding method of the European Union Reference Laboratory ANSES using LC-MS/MS Validated in accordance with the requirements of the Decision EE/657/2002
24. Milk	Quantitative determination of Benzimidazoles	Code: MD-57 In house method based on the corresponding method of the European Union Reference Laboratory BVL using HPLC-MS/MS Validated in accordance with the requirements of the Decision EE/657/2002

Microbiological tests

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
1.Foods for human consumption and animal feeding stuffs	1.Detection of *Listeria monocytogenes*	ISO 11290-1:2017
	2.Detection of *Salmonella spp*	ISO 6579-1:2017
	3.Detection *Vibrio parahaemolyticus*	ISO 21872-1: 2017
	4.Enumeration of coagulase-positive staphylococci	ISO 6888-2:1999

Materials/ Products tested	Types of test/ Properties measured	Applied Methods/Techniques used
1.Foods for human consumption and animal feeding stuffs (cont.)	5. Enumeration of microorganisms at 30ºC	ISO 4833-1:2013
	6. Enumeration of β-glucoronidase positive *Escherichia coli*	ISO 16649-2:2001
	7. Enumeration of *Enterobacteriaceae*	ISO 21528-2:2017
	8. Enumeration of β-glucoronidase positive *Escherichia coli* in live bivalve molluscs	ISO 16649-3:2015
	9. Enumeration of *Listeria monocytogenes*	ISO 11290-2:2017
	10. Enumeration of coagulase-positive staphylococci	ISO 6888-1:1999
2. Milk and milk products	1. Count of yeast and moulds at 25 ºC	ISO 6611:2004
	2. Detection of staphylococcal enterotoxins type SEA to SEE	ISO 19020:2017
3. Meat and meat products	Detection of staphylococcal enterotoxins type SEA to SEE	
4. Animal tissues and milk	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	In house method based on LMV/RMV/BIO/P TC/15.AN Version 06/17-10-2006 Guidance of Community Reference Laboratory ANSES

Site of assessment: **Permanent laboratory premises, 25 Neapoleos str., Agia Paraskevi Attiki.**
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This scope of Accreditation replaces the previous one dated 30.10.2020.
The Accreditation Certificate No. 05-4, to ELOT EN ISO/IEC 17025:2005, has been extended until 06.09.2021.

Athens, 04.03.2021

Spyridon Podaras
CEO of ESYD