

# NETWORK OF OFFICIAL LABORATORIES OF THE GENERAL DIRECTORATE OF VETERINARY SERVICES, MINISTRY OF RURAL DEVELOPMENT & FOOD

*Updated on 17 / 09 / 2020*

## DIRECTORATE OF VETERINARY CENTER OF ATHENS (DVCA)

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#### **DIRECTORATE OF VETERINARY CENTER OF THESSALONIKI (DVCTh)**

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## DIRECTORATE OF VETERINARY CENTER OF ATHENS (DVCA)

### A.1 DVCA/DEPARTMENT OF DIAGNOSTIC PATHOLOGY, ANATOMY, HISTOLOGY & MICROBIOLOGY

25, Neapoleos Street, 153 41 Agia Paraskevi  
tel:+30 210 6399521, fax:+30 210 6399521  
[dvoirvidis@minagric.gr](mailto:dvoirvidis@minagric.gr), [brucellalab@gmail.com](mailto:brucellalab@gmail.com)

#### **NATIONAL REFERENCE LABORATORY**

Zoonoses & zoonotic agents (Bovine Tuberculosis)

#### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Zoonoses & zoonotic agents (Brucellosis)

Zoonoses & zoonotic agents (Salmonella)

Paratuberculosis

Q fever

Avian mycoplasmoses

Contagious agalactia of small ruminants

Contagious bovine pleuropneumonia

Contagious caprine pleuropneumonia

#### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Blood serum samples or plasma from ruminants	Detection of antibodies against mycobacterium avium spp. <i>paratuberculosis</i> antibodies	ELISA Test according to the O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.1.15. -2018)	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.1.15. -2018)	ESYD 695-3

2	Blood serum samples or plasma from ruminants	Detection of antibodies against <i>Coxiella burnetii</i> (Q -fever)	ELISA Test according to the O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.1.16. -2018)	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.1.16. -2018)	ESYD 695-3
3	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Directive64/432	ESYD 695-3
4	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Directive64/432	ESYD 695-3
5	Milk or blood serum samples of domestic or wild ruminants	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Directive64/432	ESYD 695-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
6	Lymph nodes - Internal organs (Lungs, spleen, liver )	Bovine tuberculosis	Interferon assay, tuberculin test, culture, direct microscopy, PCR. Pending	Directive 64/432	
7	Sections of small/large intestine & mesenteric lymph nodes - Faeces	Detection of <i>Mycobacterium paratuberculosis</i>	Staining, microscopy	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.1.15 -2018)	
8	Bovine Blood serum, lungs	Detection of Contagious bovine pleuropneumonia mycoplasma ( <i>Mycoplasma mycoides subsp. mycoides SC</i> )	ELISA, Culture, PCR (upon availability of reagents)	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.4.8. -2018).	

9	Sheep and Goat Blood serum, milk	Detection of antibodies against <i>Mycoplasma agalactiae</i>	ELISA, Culture, PCR	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.7.3. -2018).	
10	Lung tissue	Detection of <i>Mycoplasma spp</i>	Culture, stereoscopy, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
11	Lungs, synovial fluid , ocular secretion	Detection of Contagious caprine pleuropneumonia mycoplasma ( <i>Mycoplasma capricolum</i> subsp. <i>Capripneumoniae</i> )	ELISA, Culture, PCR (upon availability of reagents)	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.7.4. -2018).	
12	Internal organs	Detection of <i>Escherichia coli</i> , <i>Clostridium perfringens</i>	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
13	Lung tissue	Detection of <i>Pasteurella multocida/Mannheimia haemolytica</i>	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
14	Internal organs	Detection of <i>Staphylococcus aureus</i> & coagulase negative staphylococci	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
15	Lung tissue	Detection of <i>Pasteurella multocida / Mannheimia haemolytica</i>	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
16	Internal organs	Detection of <i>Streptococcus spp</i>	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
17	Internal organs, joints, lungs from pigs, rabbits and ruminants	Detection of <i>Haemophilus spp</i> , <i>Bordetella spp</i> , <i>Erysipelothrix spp</i> ,	Culture, microscopy, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
18	Internal organs	Detection of <i>Pseudomonas spp</i>	Culture, microscopy, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
19	Cultures	Antibiograms	Antimicrobial Susceptibility–Agar Disk Diffusion Test	Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast	
20	Internal organs	Detection of moulds	Culture, staining	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	

21	Milk and udder secretions	Detection of <i>Escherichia coli</i> , <i>Klebsiella</i> spp, <i>Enterobacter</i> spp and other enterobacteriaceae	Culture, microscopy, biochemical testing	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
22	Milk and udder secretions	Detection of <i>Staphylococcus aureus</i> & coagulase negative staphylococci	Culture, microscopy, biochemical testing	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
23	Milk and udder secretions	Detection of <i>Streptococcus agalactiae</i> , <i>Streptococcus uberis</i> , <i>Streptococcus dysgalactiae</i>	Culture, microscopy, biochemical testing	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
24	Milk and udder secretions	Detection of <i>Enterococcus</i> spp, <i>Proteus</i> spp, <i>Pasteurella</i> spp, <i>Pseudomonas</i> spp, <i>Mycoplasma</i> spp, <i>Corynebacterium</i> spp, <i>Trueperella pyogenes</i>	Culture, microscopy, biochemical testing	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
25	Milk and udder secretions	Detection of yeasts	Culture, microscopy, biochemical testing	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
26	Blood serum	Detection of <i>Salmonella Pullorum</i>	Culture, isolation, rapid agglutination	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
27	Feces , Blood serum	Detection of antibodies against avian mycoplasmosis ( <i>M. Gallisepticum</i> )	ELISA, rapid agglutination	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.3.5.- 2018)	
28	Blood serum	Detection of antibodies against avian mycoplasmosis ( <i>M. synoviae</i> )	ELISA, rapid agglutination	O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (Chapter 3.3.5. -2018)	
29	Yoghurt , egg shells	Detection of Salmonella spp. in poultry	ISO 6579:2017	REG. (EU) 2160/2003	
30	Trachea - Lungs	Detection of Mycoplasma spp in poultry	Culture, microscopy	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
31	Internal organs and feces	Detection of fungi in poultry	Culture ( enriched substrates), microscopy, staining	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	

## **A.2 DVCA/DEPARTMENT OF PARASITOLOGY-PARASITIC DISEASES, ENTOMOLOGY & BEE HEALTH**

25, Neapoleos Street, 153 41 Agia Paraskevi  
tel:+30 210 6002217, fax:+30 210 6002217  
[sboutsini@minagric.gr](mailto:sboutsini@minagric.gr)

### **NATIONAL REFERENCE LABORATORY**

Parasites (*Trichinella*, *Echinococcus*, *Anisakis*)

Equine diseases other than African Horse Sickness (Dourine)

### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Parasitic diseases of animals

Leishmaniasis

Bluetongue disease surveillance program (identification of insects-vectors)

Honeybee health

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Pork meat	Detection of larvae of parasite <i>Trichinella</i> spp	Magnetic stirrer method for pooled-sample digestion (EURL Protocol)	Reg 2015/1375	ESYD 695-3
2	Dog blood serum	Detection of anti- <i>Leishmania</i> antibodies	Indirect immunofluorescence antibody test IFAT (IN HOUSE) according to the OIE	In house method - O.I.E. Terrestrial Manual (2018) Leishmaniasis (Chapter 3.1.11)	ESYD 695-3
3	Fish tissue	Detection of the parasite <i>Anisakis</i> spp	Magnetic stirrer method for pooled-sample digestion according to EURL Protocol	Protocol according to European Union Reference Laboratory for parasites (SOPs)	ESYD 695-3

4	Blood serum samples of sheep, goats, pigs, dogs, cats, wildlife	Detection of anti- <i>Toxoplasma</i> antibodies	Indirect immunofluorescence antibody test IFAT (in house)	O.I.E. Terrestrial Manual (2018) Toxoplasmosis (Chapter 3.9.9)	ESYD 695-3
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#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
5	Blood serum, plasma and meat juice of mammals	Detection of anti- <i>Toxoplasma gondii</i> antibodies	Indirect Enzyme-linked Immunosorbent Assay (ELISA)	Commercial kit ELISA	
6	Blood serum samples of horses	Detection of anti- <i>Trypanosoma equiperdum</i> antibodies	Indirect immunofluorescence antibody test IFAT (in house)	O.I.E. Terrestrial Manual (2018) Dourine (Chapter 3.5.3.)	
7	Blood serum samples of horses	Detection of anti- <i>Theileria equi</i> antibodies	Indirect immunofluorescence antibody test IFAT (in house)	O.I.E. Terrestrial Manual (2018) Equine Piroplasmosis (Chapter 3.5.8.)	
8	Blood serum samples of horses	Detection of anti- <i>Babesia caballi</i> antibodies	Indirect immunofluorescence antibody test IFAT (in house)	O.I.E. Terrestrial Manual (2018) Equine Piroplasmosis (Chapter 3.5.8.)	
9	Blood serum samples of bovine, sheep, goats, horses, dogs	Detection of anti- <i>Anaplasma phagocytophilum</i> antibodies	Indirect immunofluorescence antibody test IFAT (in house)	O.I.E. Terrestrial Manual (2018) Bovine Anaplasmosis (Chapter 3.4.1.)	
10	Blood serum samples of pigs	Detection of anti- <i>Trichinella</i> spp antibodies	Indirect Enzyme-linked Immunosorbent Assay (ELISA)	Protocol developed and validated by the European Union Reference Laboratory for parasites	
11	Blood serum, plasma and meat juice of horse, pig, dogs and wild boar	Detection of anti- <i>Trichinella</i> spp antibodies	Indirect Enzyme-linked Immunosorbent Assay (ELISA)	Commercial kit ELISA	
12	<i>Trichinella</i> larvae	Identification of <i>Trichinella</i> Muscle Stage Larvae at species level	Multiplex PCR	Protocol developed and validated by the European Union Reference Laboratory for parasites	



13	Intestinal mucosa of the definitive host	Detection of <i>Echinococcus</i> spp. adult worms	Sedimentation and Counting technique (SCT)	Protocol developed and validated by the European Union Reference Laboratory for parasites	
14	Faecal smears of all animals and birds	Detection of parasites (eggs, larvae, protozoan oocysts or cysts etc)	Microscopy/Sedimentation/Flotation		
15	Blood smears of all animals	Detection of all parasites	Microscopic examination of blood stained with Giemsa-May Grunwald stain	O.I.E. Terrestrial Manual (Protocol and reagents depending on the parasite)	
16	Faecal smears of livestock, poultry, game birds and companion animals	Detection of <i>Cryptosporidium</i> spp oocysts	Acid-fast Ziehl-Neelsen stain	O.I.E. Terrestrial Manual (May 2018) Cryptosporidiosis (Chapter 3.9.4.)	
17	Tissues (tongue, skeletal muscles, peritoneal cavity, liver, brain) of living animal and post-mortem examination or meat inspection of farmed and wild animals	Diagnosis of Cysticercosis (Detection of larval stages of cestodes-metacestodes- of <i>Taenia solium</i> , <i>T. saginata</i> , <i>T. ovis</i> , <i>T. hydatigena</i> and <i>T. multiceps</i> )	Visual inspection and microscopic examination of cysts	O.I.E. Terrestrial Manual (2018) Cysticercosis (Chapter 3.9.5.)	
18	Individual identification of insects	Identification of insects vectors of infectious diseases of animals (eg. <i>Culicoides</i> spp, <i>Phlebotomine sandflies</i> , <i>Mosquitoes</i> )	1. Morphological identification by stereoscopic examination 2. Morphological Identification of insects by microscopic examination after preparation of slides		
19	Abdomens of bees	Detection of microsporidia <i>Nosema</i> spp spores	Spore counts in haemocytometer	O.I.E. Terrestrial Manual (2018) Nosemosis of honey bees (Chapter 3.2.4.)	
20	Bees, brood and debris	Infestation of honey bees with <i>Varroa</i> spp	Examination (morphological identification) with the naked eye	O.I.E. Terrestrial Manual (2018) Varroosis of honey bees (Chapter 3.2.7.)	
21	Honey bee brood, bees, hive debris	Infestation of honey bees with mite <i>Tropilaelaps</i> spp	Morphological Identification under a microscope	O.I.E. Terrestrial Manual (2018) Infestation of honey bees with <i>Tropilaelaps</i> spp (Chapter 3.2.6.)	

22	Adult <i>Aethina tumida</i> in colonies	Infestation of colonies with <i>Aethina tumida</i>	Morphological Identification under a stereomicroscope	O.I.E. Terrestrial Manual (2018) Infestation with <i>Aethina tumida</i> (small hive beetle) (Chapter 3.2.5.)	
23	Larval smears	Infection of honey bees with <i>Melissococcus plutonius</i> (European foulbrood)	Microscopic examination of larvae smeared on slides and stained with Carbol fuchsin	O.I.E. Terrestrial Manual (May 2018) European Foulbrood of honey bees (Infection with <i>Melissococcus plutonius</i> ) (Chapter 3.2.3.)	
24	Larval smears	Infection of honey bees with <i>Paenibacillus larvae</i> (American foulbrood)	Microscopic examination of larvae smeared on slides and stained with Gram or Carbol fuchsin stain	O.I.E. Terrestrial Manual (May 2018) American Foulbrood of honey bees (Infection with <i>Paenibacillus larvae</i> ) (Chapter 3.2.2.)	

### **A.3 DVCA/DEPARTMENT OF MOLECULAR DIAGNOSTICS, FOOT & MOUTH DISEASE, VIRAL, RICKETTSIAL AND EXOTIC DISEASES**

25, Neapoleos Street, 153 41 Agia Paraskevi

tel:+30 210 6007016, fax:+30 210 6082085

[eleni.chondrokouki@yahoo.gr](mailto:eleni.chondrokouki@yahoo.gr), [viruslab.ath@minagric.gr](mailto:viruslab.ath@minagric.gr)

#### **NATIONAL REFERENCE LABORATORY**

Classical swine fever

Monitoring the effectiveness of rabies vaccination

Rabies

African swine fever

Foot and Mouth disease

Equine diseases (African horse sickness, West Nile virus disease, Equine Viral Arthritis, Equine Infectious Anemia)

*Capripoxvirus* diseases

Peste des petits ruminants (PPR)

Bluetongue

Bovine enzootic leucosis

Rift valley fever disease

Epizootic haemorrhagic disease

Porcine Vesicular disease

#### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Bovine Spongiform Encephalopathy & Small ruminants Transmissible Spongiform Encephalopathies

Avian influenza

Newcastle disease

Visna-Maedi

Bovine viral diarrhoea disease

Myxomatosis

## ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Blood serum originating from ruminants or swine	Antibody detection against the foot-and-mouth virus	Blocking ELISA KIT PRIOCHECK FMDV NS BY PRIONICS (7610440)	OIE Terrestrial Manual 2019 (Chapter 3.1.8)	ESYD 695-3
2	Blood serum originating from swine	Antibody detection against the classical swine fever virus	Blocking ELISA KIT HERDCHEK CSFV Ab BY IDEXX (9943220)	Dir2001/89 Dec2002/106	ESYD 695-3
3	Blood serum or plasma originating from ruminants	Antibody detection against the bluetongue virus	Competitive ELISA for bluetongue (BLUE TONGUE COMPETITION KIT BY IDVET) (BTC-4P)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.1.3)	ESYD 695-3
4	Blood serum, milk from bovines	Detection of bovine leucosis antibodies	Elisa technique method using kit SVANOVIR BLV-gp 51 code no10-2351-50 /10235102	OIE Terrestrial Manual 2019 (Chapter 3.4.9)	ESYD 695-3
5	Central nervous system tissue removed from the cranium of almost every warm-blooded animal	Antigen detection of Rabies virus	Fluorescent antibody test (FAT) for rabies	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.1.17.), Protocols recommended by European Union Reference Laboratory (EURL)	ESYD 695-3
6	Blood serum samples or plasma or clot or filter paper blood samples of domesticated and wild animals including red foxes	ELISA immunosorbent assay for the detection of antibodies against Rabies virus	Blocking ELISA (BioPro Rabies ELISA Ab)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.1.17.), Protocols recommended by European Union Reference Laboratory (EURL)	ESYD 695-3
7	Blood serum from farm and wild birds	ELISA immunosorbent assay for the detection of antibodies against Avian Influenza Type A virus	Kit ELISA IDEXX (Avian Influenza MultiS-Screen) farm and wild birds	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4	ESYD 695-3
8	Whole blood with EDTA, skin biopsy samples and cotton swabs of nasal, ocular or saliva bovine samples	Detection of Lumpy Skin Disease Virus (LSDV) genome and differentiation from vaccine viral strains	REAL-TIME PCR	In house method	ESYD 695-3
9	Serum, Plasma	ELISA immunosorbent assay for the detection of antibodies against Peste de Petits Ruminants (PPR)	COMPETITIVE ELISA FOR DETECTION OF ANTI-PPR Ab, ID Screen PPR Competition, IDVET	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.7.9.	ESYD 695-3

NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
10	Whole blood, bowels from ruminants	Detection of Bluetongue virus genome and typing.	Real Time RT-PCR, conventional RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.1.3.) Protocols recommended by European Union Reference Laboratory (EURL)	
11	Equine blood plasma, serum	ELISA immunosorbent assay for the detection of antibodies against African Equine Sickness virus	BLOCKING ELISA	Protocols recommended by European Union Reference Laboratory (EURL)	
12	Equine whole blood	Detection of African Equine Sickness virus genome	Real Time RT-PCR, conventional RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.5.1.) Protocols recommended by European Union Reference Laboratory (EURL)	
13	Blood plasma, serum of ruminants and deers	ELISA immunosorbent assay for the detection of antibodies against Epizootic haemorrhagic disease virus	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.1.7.) Protocols recommended by European Union Reference Laboratory (EURL)	
14	Blood plasma of ruminants and deers	Detection of Epizootic hemorrhagic disease virus genome	Real Time RT-PCR	Protocols recommended by European Union Reference Laboratory (EURL)	
15	Equine blood plasma, serum	ELISA immunosorbent assay for the detection of antibodies against Equine West Nile Fever virus	West Nile competition multi-species ELISA and West Nile IgM capture ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.1.24.) Protocols recommended by European Union Reference Laboratory (EURL)	

16	Equine whole blood	Detection of West Nile Fever virus genome in equidae	Real Time RT-PCR, conventional RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.1.24.) Protocols recommended by European Union Reference Laboratory (EURL)	
17	Mandible and teeth sections of red foxes	Tetracycline detection and red fox age determination	Microscopy	Protocols recommended by European Union Reference Laboratory (EURL)	
18	Central nervous system (CNS) tissue removed from the cranium	Detection of Rabies virus genome	REAL-TIME RT-PCR, CONVENTIONAL RT-PCR	Protocols recommended by European Union Reference Laboratory (EURL)	
19	Equine serum	Detection of antibodies against Equine infectious anaemia virus	Agar gel immunodiffusion (AGID)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.5.6.	
20	Equidae serum	ELISA immunosorbent assay for the detection of antibodies against Equine Infectious Anaemia virus	Indirect ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.5.6.	
21	Skin lesions, blood samples, cotton swabsticks	Detection of <i>Capripoxvirus</i> genome and species discrimination (SPPV, GTPV, LSD)	Real Time PCR, conventional PCR, Sequencing, Bioinformatics	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapters 3.7.12. and 3.4.12) Protocols recommended by European Union Reference Laboratory (EURL)	
22	Equine whole blood, tissue (spleen)	Detection of gag gene of Equine Infection Anemia virus (EIAV)	Conventional PCR, Sequencing, Bioinformatics	Protocols recommended by European Union Reference Laboratory (EURL)	
23	Equine whole blood, tissue (spleen)	Detection of LTR region of Equine Infection Anemia virus genome (EIAV)	Conventional PCR, Sequencing, Bioinformatics	Dong et al Development of a nested PCR assay to detect equine infectious anemia proviral DNA from peripheral blood of naturally infected horses, Arch Virol (2012) 157:2105–2111	

24	Serum of ovine and caprine animals	Detection of Sheep Pox virus antibodies	AGAR GEL IMMUNODIFFUSION	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.7.12.)	
25	Skin biopsy samples	Cell culture isolation of Sheep Pox virus	VIRUS ISOLATION IN CELL CULTURES	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.7.12.)	
26	Blood serum, plasma from companion animals	Titration of neutralising antibodies against Rabies virus in companion animals in the frame of pet travel scheme	FAVN: Fluorescent Antibody Virus Neutralization	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.1.17)	
27	RT-PCR product	Sequencing of E gene & NS5, of <i>Flavivirus</i> & phylogenetic analysis	GEL BASED RT-PCRS, SEQUENCING, BIOINFORMATICS	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 (Chapter 3.1.24.) Protocols recommended by European Union Reference Laboratory (EURL)	
28	Serum or plasma of bovidae	ELISA immunosorbent assay for the detection of antibodies against Infectious Bovine Rhinotracheitis herpesvirus	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.4.11)	
29	Serum or plasma of bovidae	ELISA immunosorbent assay for the detection of antibodies against Bovine Viral Diarrhoea viruses	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.4.7)	
30	Equidae serum	ELISA immunosorbent assay for the detection of antibodies against Equine Arteritis virus	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.5.10)	
31	Equidae serum	ELISA immunosorbent assay for the detection of antibodies against Equine Rhinopneumonitis viruses (equidae herpesvirus-1 and -4)	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.5.9)	
32	Liver of rabbits	ELISA immunosorbent assay for the detection of antibodies against Rabbit Haemorrhagic Disease virus	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.6.2)	

33	Liver, spleen, trachea of rabbits	Detection of Myxomatosis viral DNA	CONVENTIONAL PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.6.1)	
34	Serum of ovine and caprine animals	ELISA immunosorbent assay for the detection of antibodies against Caprine Arthritis-Encephalitis (CAE) and Maedi-Visna (MV) viruses	Indirect ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.7.2)	
35	Serum of ovine	ELISA immunosorbent assay for the detection of antibodies against <i>Chlamydophila abortus</i> (Ovine chlamydiosis - Enzootic Abortion of Ewes)	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2017 (Chapter 3.7.5)	
36	Fetus or aborted placentae	Detection of <i>Chlamydophila abortus</i> (Ovine chlamydiosis - Enzootic Abortion of Ewes) virus genome	REAL-TIME PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019	
37	Serum of ovine and caprine animals	Contagious Ecthyma (ORFV)	AGAR GEL IMMUNODIFFUSION (AGID)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019	
38	Skin lesions	Contagious Ecthyma (ORFV)	CONVENTIONAL PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019	
39	Skin lesions	Contagious Ecthyma (ORFV)	REAL-TIME PCR	H. Zhao et al. / Journal of Virological Methods 194 (2013) 229– 234	
40	PCR product	Sequencing of VIR gene of ORF virus ( <i>Parapoxvirus</i> ) & phylogenetic analysis	GEL BASED PCRs, SEQUENCING, BIOINFORMATICS	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019	
41	Serum or plasma of ruminants	ELISA immunosorbent assay for the detection of antibodies against Rift Valley Fever virus	ELISA	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.1.18)	
42	Blood serum, plasma from bovines	Detection of bovine leucosis antibodies	Agar gel immunodiffusion (IDEXX KIT POURQUIER AGID LEUKOSIS)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (Chapter 3.4.9)	



43	Blood plasma, serum from pigs and wildboars	ELISA immunosorbent assay for the detection of antibodies against Porcine Vesicular Disease virus	Competitive double sandwich ELISA (PRIONICS KIT PRIOCHECK SVDV Abs) or Competitive ELISA for anti-SVD Abs (IDVET KIT ID Screen Swine Vesicular Disease Competition)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2017 (Chapter 3.8.8)	
44	Brain tissue of adult ruminants	Detection of prion protein	TeSeE SAP Kits ELISA BIORAD	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2017 (Chapter 2.4.5) par 1.3.1	
45	Allantoic fluid from chicken embryonated eggs	Haemagglutination test for the detection of haemagglutinated factor and haemagglutination inhibition test for characterization of Avian Influenza virus	Haemagglutination test	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4 and EURL protocols	
46	Chicks (live and dead), swabs, farm and wild birds	Detection of matrix, H5, H7 and N1 genes of Avian Influenza virus	Real Time RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4 and EURL protocols	
47	Chicken embryonated eggs	Avian Influenza virus isolation - inoculation of chicken embryonated eggs	Inoculation in embryonated chicken eggs	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4 and EURL protocols	
48	Blood serum from farm and wild birds	ELISA immunosorbent assay for the detection of antibodies against Avian Influenza Type A virus	Kit IDEXX (Avian Influenza) chicken, turkey	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4	
49	Blood serum from farm and wild birds	Haemagglutination Inhibition test for the detection of antibodies against different subtypes of Avian Influenza Type A virus	Haemagglutination Inhibition test	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.4 and EURL protocols	
50	RT-PCR product	Nucleotide sequence determination of specific regions of the genome of H5 & H7 Avian influenza virus, cleavage site identification and phylogenetic analysis.	Conventional RT-PCR, Sequencing, Bioinformatics.	EURL protocols	

51	Chicken embryonated eggs	Newcastle Disease virus isolation - inoculation of chicken embryonated eggs	Inoculation in embryonated chicken eggs	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14 and EURL protocols	
52	Allantoic fluid from chicken embryonated eggs	Haemagglutination test for the detection of haemagglutinated factor and haemagglutination inhibition test for characterization of Newcastle disease virus	Haemagglutination test	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14 and EURL protocols	
53	Blood serum from farm and wild birds	Haemagglutination Inhibition test for the detection of antibodies against Newcastle disease virus	Haemagglutination inhibition test	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14 and EURL protocols	
54	Chicks (live and dead), swabs, farm and wild birds	Detection of Newcastle Disease virus genome using Real Time RT-PCR.	Real Time RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14 and EURL protocols	
55	RT-PCR product	Determination of the amino acid motif in 112-117 of the fusion protein of the Newcastle Disease virus.	Conventional RT-PCR, Sequencing, Bioinformatics (SOP VI.587, VI448 APHA).	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14 and EURL protocols	
56	Blood serum of chickens and turkeys.	ELISA immunosorbent assay for the detection of antibodies against Newcastle Disease virus	Kit ELISA (Newcastle Disease virus) for chickens and turkeys.	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.3.14	
57	EDTA blood, serum, tissue swine samples	Detection of Classical Swine Fever virus genome (CSFV)	Real Time RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (ch: 3.8.3). EURL CSF SOPs. EURL protocols	
58	EDTA blood, serum, tissue swine samples	Detection of African Swine Fever virus genome (ASFV)	REAL-TIME PCR, GEL BASED PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2019 (ch: 3.8.1). EURL ASF SOPs.	

59	RT-PCR products	Determination of nucleotide sequence of Rabies virus nucleoprotein and glycoprotein coding genes and phylogenetic analysis	Sequencing, Bioinformatics	EURL protocols	
60	Swine blood serum	ELISA immunosorbent assay for the detection of antibodies against African Swine Fever virus (ASFV)	Indirect ELISA (kit ID Screen® African Swine Fever Indirect ELISA) against recombinant proteins P32, P62 and P72 of ASF virus	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (ch: 3.8.1). EURL ASF SOPs	
61	Swine blood serum	ELISA immunosorbent assay for the detection of antibodies against African Swine Fever virus (ASFV)	Competition ELISA (kit ID Screen® African Swine Fever competition ELISA) against recombinant protein P32 of ASF virus.	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (ch: 3.8.1). EURL ASF SOPs	
62	Swine blood serum	ELISA immunosorbent assay for the detection of antibodies against African Swine Fever virus (ASFV)	Competition ELISA (kit Ingezim PPA Compac (11.PPA k3) with monoclonal Ab against P72 protein of ASF virus	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (ch: 3.8.1). EURL ASF SOPs	
63	Swine blood serum	Detection of Antigen against African Swine Fever virus (ASFV)	Double sandwich ELISA (kit Ingezim PPA DAS (11.PPA.K2))	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (ch: 3.8.1). EURL ASF SOPs	
64	Swine EDTA blood, serum or tissue exudate	Detection of antibodies against African swine fever (ASFV)	IPT (Indirect Immunoperoxidase technique)	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals (ch: 3.8.1). EURL ASF SOPs	
65	PCR products	Determination of nucleotide sequence of GPCR and RP030 genes of <i>Capripoxvirus</i> and phylogenetic analysis	Sequencing, bioinformatics	Published techniques (Lamien et al 2011, Le Goff et al 2009)	
66	PCR products	Determination of nucleotide sequence of <i>B646L</i> , <i>B602L</i> genes and intergenic region <i>I73R/I329L</i> of ASF virus genome, genotype identification and phylogenetic analysis (ASFV)	Sequencing, bioinformatics	EURL ASF SOPs	
67	Pathologic material from ruminants and swines	Detection of Foot and Mouth Disease virus genome (FMDV)	Real Time RT-PCR	EURL protocols	

68	Pathologic material from ruminants and swines	Typing of Foot and Mouth Disease virus genome (FMDV)	Real Time RT-PCR	Reid et al Journal of Virological Methods 207 (2014) 146–153 Saduakassova et al Journal of Virological Methods 252 (2018) 37–41 Ahmed et al Transbound Emerg Dis. 2012 Dec;59(6):476-81	
69	Pathologic material from ruminants and swines	Typing of Foot and Mouth Disease virus genome (FMDV)	Conventional RT-PCR Sequencing, Bioinformatics	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2018 Chapter 3.1.8	
70	Bovine skin tissue, whole blood (EDTA)	Detection and typing of Bovine Papilloma virus genome (BPV)	Conventional PCR, Sequencing, Bioinformatics	Transboundary and Emerging Diseases. 59 (2012) 441–447 & J. Gen. Virol. 85, 2191–2197	
71	Whole blood (EDTA) of ovine and caprine animals	Detection of <i>Anaplasma ovis</i> genome	Conventional PCR, Sequencing, Bioinformatics	J. de la Fuente et al. / Veterinary Microbiology 119 (2007) 375–381	
72	Pathologic material, Whole blood (EDTA) , nasal/ocular swabs, material from small ruminants	Detection of PPRV genome (PPRV)	Real Time RT-PCR	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.7.9 EURL protocols	
73	Pathologic material, Whole blood (EDTA) , nasal/ocular swabs, material from small ruminants	Detection and determination of partial N/F gene sequence of PPRV	Conventional RT-PCR Sequencing, Bioinformatics	OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, 2019 Chapter 3.7.9 EURL protocols	

#### A.4 DVCA/DEPARTMENT OF PATHOLOGY OF AQUATIC ORGANISMS

25, Neapoleos Street, 153 41 Agia Paraskevi  
 tel: +30 210 6080838, fax: +30 210 6080838  
[aprapas@minagric.gr](mailto:aprapas@minagric.gr)

##### NATIONAL REFERENCE LABORATORY

Fish diseases  
 Diseases of crustaceans

##### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Diseases of bivalve molluscs

##### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Fish tissue	Isolation and identification of viral haemorrhagic septicaemia virus	ELISA KIT BY BIO-X DIAGNOSTICS (BIO K272/2)	Dir88/2006,Dec1554/2015	ESYD 695-3
2	Fish tissue	Isolation and identification of infectious haemopoetic necrosis virus	ELISA KIT BY BIO-X DIAGNOSTICS (BIOK273/2)	Dir88/2006,Dec1554/2015	ESYD 695-3
3	Fish tissue /supernatant tissue culture	Isolation and identification of koi herpes virus (khv)	PCR using extraction kit of QIAGEN, (69504 DN EASY)	Dir88/2006,Dec1554/2015	ESYD 695-3

##### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
4	Fish tissue /cell culture supernatant	Isolation and identification of epizootic necrosis virus	Identification with conventional PCR, sequencing and bioinformatics analysis	Dir88/2006,Dec1554/2015	
5	Fish tissue /cell culture supernatant	Isolation and identification of infectious salmon anemia virus	Identification with conventional PCR, sequencing and bioinformatics analysis	Dir88/2006,Dec1554/2015	
6	Crustaceans tissue	Identification of Taura syndrome	Identification with conventional PCR	Dir88/2006,Dec1554/2015	

		virus			
7	Crustaceans tissue	Identification of Yellow head syndrome virus	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
8	Crustaceans tissue	Identification of White spot syndrome virus	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
9	Crustaceans tissue	Identification of Aphanomyces astaci (Crayfish plague)	Identification with conventional PCR	OIE Aquatic Animal Health Diagnostic Manual- OIE EURL Protocol	
10	Bivalve molluscs tissue	Identification of <i>Bonamia exitiosa</i> parasite	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
11	Bivalve molluscs tissue	Identification of <i>Perkinsus marinus</i> parasite	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
12	Bivalve molluscs tissue	Identification of <i>Microcytos mackini</i> parasite	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
13	Bivalve molluscs tissue	Identification of Marteilia refringens parasite	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
14	Bivalve molluscs tissue	Identification of <i>Bonamia ostreae</i> parasite	Identification with conventional PCR	Dir88/2006,Dec1554/2015	
15	Fish tissue /cell culture supernatant	Isolation and identification of sea bass nervous necrosis virus	Identification with indirect immunofluorescence, identification with conventional PCR or real-time PCR (PCR ñ qPCR)	OIE Aquatic Animal Health Diagnostic Manual- OIE EURL Protocol	
16	Fish tissue /cell culture supernatant	Isolation and identification of red bream iridovirus	Identification with conventional PCR	OIE Aquatic Animal Health Diagnostic Manual- OIE Reference Laboratory protocol	
17	Fish tissue /cell culture supernatant	Isolation and identification of lymphocystis iridovirus	Identification with conventional PCR or real-time PCR (PCR or qPCR)	Published methods (E.J.Valverde et al. 2016, H.Kvitt et al.2008)	
18	Fish tissue	Isolation and identification of <i>Photobacterium damsella</i> subsp. <i>Piscicida</i> microorganism	Identification with biochemical method (API), Identification with serological method (agglutination), Identification with conventional PCR or real time PCR (qPCR)	Published methods (C.R.Osorio et al.2000, R.Carraro et al. 2017)	
19	Fish tissue	Isolation and identification of <i>Listonella anguillarum</i> microorganism	Identification with biochemical method (API), Identification with serological method (agglutination on plate), Identification with conventional PCR	Published methods (F.Crisafi et al.,2011)	

20	Fish tissue	Isolation and identification of <i>Aeromonas veronii biovar sobria</i> microorganism	Identification with biochemical method (API), Identification with conventional PCR	Published methods (M.Smyrli , A.Prapas et al. 2017)	
21	Fish tissue	Isolation and identification of <i>Tenacibaculum maritimus</i> microorganism	Identification by conventional PCR	Published methods ( R.Avendano-Herrera et al. 2006)	
22	Fish tissue	Isolation and identification of trout <i>Yersinia ruckeri</i> microorganism	Identification with biochemical method (API), Identification with conventional PCR	Published methods (J.T. Lejeune et al. 2000)	
23	Fish tissue	Isolation and identification of trout <i>Lactococcus garviae</i> microorganism	Identification with biochemical method (API), Identification with conventional PCR	Published methods(A.Zlotkin et al.1998)	
24	Fish tissue	Isolation and identification of salmonid <i>Aeromonas salmonicida</i> microorganism	Identification with biochemical method (API), Identification with conventional PCR	Published methods (H.K.Byers et al. 2002, C. Fernandez-Alvarez et al. 2016)	
25	Fish tissue	Isolation and identification of <i>Edwardsiella tarda</i> microorganism	Identification with biochemical method (API), Identification with conventional PCR	Published methods (P.Katharios et al. 2015)	
26	Fish tissue	Isolation and identification of <i>Flavobacterium psychrophilum</i> (Rainbow trout fry syndrome)	Identification with biochemical method (API), Identification with conventional PCR	Published methods (T.Wiklund et al. 2000)	
27	Fish tissue	Identification of monogenic trematoda parasites	Microscopy	In house method	
28	Fish tissue	Identification of digenic trematoda parasites	Microscopy	In house method	
29	Fish tissue	Identification of crustacean parasites	Microscopy	In house method	
30	Fish tissue	Identification of myxosporea and parasite myxosporea	Microscopy, preparations staining	In house method	
31	Fish tissue	Isolation and identification of nematode parasites of <i>Anisakidae</i> family	Artificial digestion and multiplex PCR	Published methods (B.R.Dixon,2006)	

## **A.5 DVCA/DEPARTMENT OF FOOD HYGIENE**

25, Neapoleos Street, 153 41 Agia Paraskevi  
tel: +30 210 6399241, fax: +30 210 6399241  
[tyt@minagric.gr](mailto:tyt@minagric.gr)

### **NATIONAL REFERENCE LABORATORY**

*Listeria monocytogenes*

Coagulase positive staphylococci, including *Staphylococcus aureus*

*E.coli* in bivalve mollusks/ISO 16649-3:2015

Food borne viruses (food of animal origin, including bivalve molluscs)

### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Microbiological criteria for foodstuffs

Pollen content and other composition criteria of honey

Animal by-products

Antimicrobial resistance

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Honey	Determination of electrical conductivity	Harmonised Methods of the International Honey Commission (2009), Method 2	Dir2001/110	ESYD 05-4
2	Honey	Determination of moisture	Harmonised Methods of the International Honey Commission (2009), Method 1	Dir2001/110	ESYD 05-4
3	Honey	Determination of diastase index	AOAC 958.09:2005, revised January 2010	Dir2001/110	ESYD 05-4
4	Honey	Determination of free acidity	AOAC 962.19:2005	Dir2001/110	ESYD 05-4



5	Honey	Determination of hydroxymethylfurfural (HMF)	AOAC 980.23:2005	Dir2001/110	ESYD 05-4
6	Honey	Pollen identification and counting	Pollen method according to International Honey Committee	Joint Ministerial Decision 127/2004/18.02.2005 (B' 239)	ESYD 05-4
7	Foods for human consumption and animal feeding stuffs	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005	ESYD 05-4
8	Foods for human consumption and animal feeding stuffs	Detection of <i>Salmonella spp</i>	ISO 6579-1:2017	Reg2073/2005	ESYD 05-4
9	Foods for human consumption and animal feeding stuffs	Detection <i>Vibrio parahaemolyticus</i>	ISO 21872-1: 2017	Reg2073/2005	ESYD 05-4
10	Foods for human consumption and animal feeding stuffs	Enumeration of coagulase-positive staphylococci	ISO 6888-2:1999/Amed 1:2003	Reg2073/2005	ESYD 05-4
11	Foods for human consumption and animal feeding stuffs	Enumeration of microorganisms at 30°C	ISO 4833-1:2013	Reg2073/2005	ESYD 05-4
12	Foods for human consumption and animal feeding stuffs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i>	ISO 16649-2:2001	Reg2073/2005	ESYD 05-4
13	Foods for human consumption and animal feeding stuffs	Enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2:2017	Reg2073/2005	ESYD 05-4
14	Foods for human consumption and animal feeding stuffs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i> in live bivalve molluscs	ISO 16649-3:2015	Reg2073/2005	ESYD 05-4
15	Foods for human consumption and animal feeding stuffs	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2:2017	Reg2073/2005	ESYD 05-4
16	Foods for human consumption and animal feeding stuffs	Enumeration of coagulase-positive staphylococci	ISO 6888-1:/Amed 2:2018	Reg2073/2005	ESYD 05-4
17	Milk and milk products	Count of yeast and moulds at 25 °C	ISO 6611:2004	Reg2073/2005	ESYD 05-4
18	Milk and milk products	Detection of staphylococcal enterotoxins type SEA to SEE	ISO 19020:2017	Reg2073/2005	ESYD 05-4
19	Meat and meat products	Detection of staphylococcal enterotoxins type SEA to SEE	ISO 19020:2017	Reg2073/2005	ESYD 05-4

NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
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20	Canned foods	Incubation test at 30oC & 55oC	APHA 1992, Compendium Methods 3rd ed	APHA 1992, Compendium Methods 3rd ed	
21	Foods for human consumption and animal feeding stuffs	Enumeration of Coliforms	ISO 4832:2006	ISO 4832:2006	
22	Foods for human consumption and animal feeding stuffs	Enumeration of Sulfite-reducing bacteria (or clostridia)	ISO 15213:2003	ISO 15213:2003	
23	Foods for human consumption and animal feeding stuffs	Enumeration of Enterococci	APHA, Compendium of Methods for the Microbiological Examination of Foods	APHA, Compendium of Methods for the Microbiological Examination of Foods	
24	Foods for human consumption and animal feeding stuffs	Enumeration of yeasts and moulds (products with aw>0,95)	ISO 21527-1:2008	ISO 21527-1:2008	
25	Foods for human consumption and animal feeding stuffs	Enumeration of Lactic Acid Bacteria	ISO 15214:1998 ISO 7889:2003 (IDF 117: 2003)	ISO 15214:1998 ISO 7889:2003 (IDF 117: 2003)	
26	Shellfish bivalves	Detection and enumeration of norovirus	ISO 15216-2 :2017	ISO 15216-2 :2017	Validated

## **A.6 DVCA/DEPARTMENT OF TOXICOLOGY, RESIDUES & ENVIRONMENTAL CONTAMINANTS**

25, Neapoleos Street, 153 41 Agia Paraskevi  
tel: +30 210 6013899, fax: +30 210 6012594  
[kkia@otenet.gr](mailto:kkia@otenet.gr)

### **NATIONAL REFERENCE LABORATORY**

Residues of substance groups A2, A5, A6 (chlorpromazine, nitroimidazoles), B1 (apart from honey), B2a, B2b, B2d, B2e, B3b, B3c (food of animal origin), B3d, B3e of Annex I of Directive 96/23/EC

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Meat, liver and kidney	Determination of cadmium (Cd) content	MD.01-ATTK In-house method using Atomic Absorbtion Spectrometry with Graphite Furnace (ZET-AAS)	Reg.333/07 & Reg.1881/06	ESYD 05-4
2	Fisheries and fishery products	Determination of cadmium (Cd) content	MD.02-ATTK In-house method using Atomic Absorbtion Spectrometry with Graphite Furnace (ZET-AAS)	Reg.333/07 & Reg.1881/06	ESYD 05-4
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)	Reg.333/07 & Reg.1881/06	ESYD 05-4
4	Fisheries	Determination of dyes: Malachite Green, Leucomalachite Green, Crystal Violet, Leucocrystal Violet, Brilliant Green	MD.21-ATTK In house LC-MS/MS method, validated according to the requirements of the Decision EU/657/2002.	Dec.657/2002	ESYD 05-4

5	Animal tissues	Determination of tetracycline residues (4): Tetracycline, Oxytetracycline, Chlortetracycline, Doxycycline, 4-Epichlortetracycline	MD.04-ATTK 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.	Dec.657/2002 Reg.37/2010	ESYD 05-4
6	Muscular tissues	Determination of quinolone residues (7): Ciprofloxacin, Danofloxacin, Difloxacin, Enrofloxacin, Flumequine, Marbofloxacin, Oxonilic acid	MD.26-ATTK 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.	Dec.657/2002 Reg.37/2010	ESYD 05-4
7	Animal tissues	Determination of sulfonamide residues (10): Sulfadiazine, sulfathiazole, sulfamerazine, sulfadimidine, sulfamethoxy-pyridazine, sulfamonomethoxine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine, Na-sulfaclozine	MD.18-ATTK 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.	Dec.657/2002 Reg.37/2010	ESYD 05-4
8	Milk	Determination of sulfonamide residues (7): Sulfadiazine, sulfamerazine, sulfadimidine, sulfamethoxy-pyridazine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine	MD.17-ATTK 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.	Dec.657/2002 Reg.37/2010	ESYD 05-4
9	Milk	Determination of Cd and Pb	MD.05-ATTK In house method using AAS, graphite furnace technique (ZETAAS)	Reg.333/07 & Reg.1881/06	ESYD 05-4

10	Eggs	Determination of sulfonamide residues (8): Sulfadiazine, sulfathiazole, sulfamerazine, sulfamethoxyipyridazine, sulfamethazine, sulfachlorpyridazine, sulfadoxine, sulfadimethoxine	MD.31-ATTK 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	Dec.657/2002 Reg.37/2010	ESYD 05-4
11	Urine, water	Determination of $\beta$ -antagonists residues (17): zilpaterol, terbutalin, salbutamol, cimaterol, cibuterol, fenoterol, ritodrin, clenclorhexerol, clenproperol, clenbuterol, ractopamin, isoxsuprin, tulobuterol, clenpenterol, mabuterol, mapenterol, brombuterol	MD.29-ATTK 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.	Απόφ.ΕΕ 657/2002 Οδ.96/22/ΕΚ	ESYD 05-4
12	Animal tissues	Determination of $\beta$ -antagonists residues (17): zilpaterol, terbutalin, salbutamol, cimaterol, cibuterol, fenoterol, ritodrin, clenclorhexerol, clenproperol, clenbuterol, ractopamin, isoxsuprin, tulobuterol, clenpenterol, mabuterol, mapenterol, brombuterol	MD.10-ATTK 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.	Dec.657/2002 Dir.96/22/EC	ESYD 05-4
13	Animal tissues	Determination of tranquilizers (antianxiety drugs) residues (7): acetopromazine, chloropromazine, xylazine, promazine, propionylpromazine, carazolol, azaperone, Azaperol	MD.03-ATTK 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.	Dec.657/2002	ESYD 05-4
14	Animal urine	Detection and determination of (6) antithyroid drugs (thiouracil, methyl thiouracil, propyl thiouracil, phenyl thiouracil, tapazol, mercaptobenzimidazol)	MD.23-ATTK In house method using LC-MS/MS after derivatization with 3-iodo-benzyl-bromide.	Dec.657/2002	ESYD 05-4

15	Foods of animal origin and their products	Determination of lead (Pb) content	MD.08-ATTK In – house method using Atomic Absorption Spectrometry with electrothermal Graphite Furnace.	Reg.333/07 & Reg.1881/06	ESYD 05-4
16	Thyroid and animal tissues	Detection and determination of (6) antithyroid drugs (thiouracil, methyl thiouracil, propyl thiouracil, phenyl thiouracil, tapazol, mercaptobenzimidazol)	MD.32-ATTK In house method using LC-MS/MS after derivatization with 3-iodo-benzyl-bromide.	Dec.657/2002 Dir.96/22/EC	ESYD 05-4
17	Meat and blood serum	Determination of nitroimidazoles	MD.36-ATTK In house LC/MS-MS method based on Community Reference Laboratory BVL method	Dec.657/2002 Dir.96/23/EC	ESYD 05-4
18	Tissue, milk and honey	Determination of organophosphorus pesticide residues	MD.38-ATTK In house LC-MS/MS method according to SANCO 12495/2011 document	Reg.396/2005, Reg.37/2010	ESYD 05-4
19	Milk	Quantitative determination of aflatoxin M1	MD.53-ATTK ISO 14501/IDF 171:2007 Immunoaffinity column HPLC / FLD method	Dec.657/2002	ESYD 05-4
20	Animal tissues	Quantitative determination of ochratoxin A	In house validated method Code: MD.54-ATTK Immunoaffinity column HPLC / FLD method	Dec.657/2002	ESYD 05-4
21	Milk and Muscle	Quantitative determination of Avermectins (Moxidectin, Abamectin, Emamectin, Doramectin, Ivermectin)	Code : MD.46-ATTK 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.	Dec.657/2002 Reg.37/2010	ESYD 05-4
22	Animal tissues and milk	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	Code: MD.24-ATTK In house method based on LMV/RMV/BIO/PTC/15.AN Version 06/17-10-2006 Guidance of Community Reference Laboratory ANSES	Reg.37/2010	ESYD 05-4
23	Honey	4- Determination of Cd and Pb	MD.09-ATTK In house Z-ETAAS method	Reg.333/07 & Reg.1881/06	ESYD 05-4

24	Eggs	Quantitative determination of Antibiotics(b-lactam, macrolidies, tetracyclines,quinolones, sulfonamides)	MD.59-ATTK In house method based on the corresponding method of the European Community Reference Laboratory ANSES using LC-MS/MS, validated according to the requirements of the Decision EU/657/2002.	Dec.657/2002	ESYD 05-4
25	kidney, muscle, egg and milk	Quantitative determination of Aminoglykosides	MD.15-ATTK In house method based on the corresponding method of the European Community Reference Laboratory ANSES using LC-MS/MS, validated according to the requirements of the Decision EU/657/2002.	Dec.657/2002	ESYD 05-4
26	milk	Quantitative determination of Benzimidazoles	MD.57-ATTK In house method based on the corresponding method of the European Community Reference Laboratory BVL using HPLC-MS/MS, validated according to the requirements of the Decision EU/657/2002.	Dec.657/2002	ESYD 05-4

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
27	Milk	Determination of tetracycline residues	HPLC-DAD	Dec.657/2002 Reg.37/2010	Validated
28	Tissue and Milk	Determination of antimicrobial residues (b-lactames, quinolones, macrolides)	LC-MS/MS	Dec.657/2002 Reg.37/2010	Validated
29	Animal tissues (meat, kidney), milk, fisheries, eggs	Determination of antimicrobial agent residues (post- screening)	Biosensors	Dec.657/2002 Reg.37/2010	Validated
30	Animal tissues, milk, drinking water	Determination of $\beta$ -antagonists residues (screening)	ELISA	Guidance of European Laboratories based on Dec. 657/2002	Validated

## **A.7 DVCA/DEPARTMENT: VETERINARY LABORATORY OF CHALKIS**

Pei Dokou, Chalkida. P.O. Box 19241, 34100 Chalkida

tel: +30 2221042521, fax: +30 2221041421

[vetlab7@otenet.gr](mailto:vetlab7@otenet.gr)

### **NATIONAL REFERENCE LABORATORY**

Zoonoses & zoonotic agents (Samonella)

Antimicrobial resistance

### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Microbiological criteria for foodstuffs

Bacteriological contamination of bivalve molluscs

Animal by-products

Residues of substance group B1 of Annex I of Directive 96/23/EC

Honeybee health

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Foodstuffs and animal feeding stuffs	Detection of <i>Salmonella</i> spp.	ISO 6579-1:2017	Reg2073/2005	ESYD 477-4
2	Foodstuffs and animal feeding stuffs	Enumeration of microorganisms by the colony count method at 30 °C, using the pour plate technique	ISO 4833-1: 2013	Reg2073/2005	ESYD 477-4
3	Foodstuffs and animal feeding stuffs	Enumeration of microorganisms by the colony count method at 30 °C, using the surface plating technique	ISO 4833-2:2013	Reg2073/2005	ESYD 477-4
4	Foodstuffs and animal feeding stuffs	Detection and enumeration of Enterobacteriaceae, by the colony count technique	ISO/TC 21528-2:2017	Reg2073/2005	ESYD 477-4



5	Live bivalve molluscs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i> in	ISO 16649-3:2015	Reg2073/2005	ESYD 477-4
6	Animal faeces and environmental samples from the primary production stage	Detection of <i>Salmonella</i> spp.	ISO 6579-1:2017	Reg2160/2003	ESYD 477-4
7	<i>Salmonella</i> spp isolates	Serotyping of <i>Salmonella</i> spp strains	ISO 6579-3:2014	Reg2160/2003	ESYD 477-4
8	<i>Salmonella</i> spp & <i>E.coli</i> isolates	Monitoring of Antimicrobial resistance of <i>Salmonella</i> spp & <i>E.coli</i> strains with the Disk Diffusion agar test to:Ampicillin, cefotaxime, ceftazidime, gentamycin, nalidixic acid, ciprofloxacin, chloramphenicol, tetracycline, trimethoprim.	Antimicrobial Susceptibility–Agar Disk Diffusion Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast Clinical Breakpoint Table and article of Cavaco LM and Aarestrup FM (J.Clin. Microbiol.2009.Sep;47(9):2751-2758)	Dir2003/99/EC Dec2007/407/EK	ESYD 477-4
9	<i>Salmonella</i> spp & <i>E.coli</i> isolates	Monitoring of Antimicrobial resistance of <i>Salmonella</i> spp & <i>E.coli</i> strains with the Minimum Inhibition Concentration (MIC) test in microplate	Antimicrobial Susceptibility– Minimum Inhibition Concentration (MIC) – Broth Microdilution method using Sensititre microplate manufactured by TREK Diagnostic Systems, according to the valid editions of guidelines CLSI:M7, CLSI:M100, Eucast epidemiological cut off values and the article of Cavaco LM and Aarestrup FM (J.Clin. Microbiol. 2009.Sep;47(9):2751-2758)	Dec2013/652	ESYD 477-4
10	Animal and poultry muscular tissues and milk of bovine, sheep and goats	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	<i>In house method (MA-07)</i> based on LMV/RMV/BIO/P TC/15.AN Version 06/17-10-2006 Guidance of Community Reference Laboratory ANSES	Dec657/2002, Reg37/2010	ESYD 477-4
11	Meat and poultry meat	Detection of <i>Campylobacter</i> spp.	ISO 10272-1: 2006	Reg 2073/2005	ESYD 477-4

12	<i>Campylobacter jejuni</i> & <i>Campylobacter coli</i> isolates	Monitoring of Antimicrobial resistance of <i>Campylobacter jejuni</i> & <i>Campylobacter coli</i> strains with the Minimum Inhibition Concentration (MIC) test in microplate.	Antimicrobial Susceptibility– Minimum Inhibition Concentration (MIC) – Broth Microdilution method, using Sensititre microplate manufactured by TREK Diagnostic Systems, according to the valid editions of guidelines CLSI: VET 01-A4, VET01S, M7, M100, Eucast epidemiological cut off values.	Dec2013/652	ESYD 477-4
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#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
13	Foodstuffs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i> in	ISO 16649-2:2001	Reg2073/2005	
14	<i>Apis mellifera</i> honey bees and brood	Detection of Varroa destructor (Varroosis) mites and their counting	Macroscopic & microscopic examination and identification / OIE <i>Terrestrial Manual 2008 2.2.7</i>	OIE Terrestrial Animal Health Code , Article 9.6	
15	Forager bees <i>Apis mellifera</i>	Detection of <i>Nosema spp.</i> (spores) (qualitative determination) and their count (quantification)	Microscopic examination, spore count on hemocytometer and determination of mean spore number per bee / OIE Terrestrial Manual 2013 2.2.4	MD 4424/137557/11.11.2013	
16	Bees of <i>Apis mellifera</i>	<i>Detection of Acarapis woodi mites (Acarapisosis)</i>	Microscopic observation & identification OIE Terrestrial Manual 2008 2.2.1.	OIE Terrestrial Animal Health Code, Article 9.1.	
17	Fresh meat	Isolation of ESBL enzymes, AmpC and carbapenemases-producing E. Coli strains	Protocol of DTU Food Laboratory-European Reference Laboratory for Antimicrobial Resistance	Dec2013/652	
18	Caecum	Isolation of ESBL enzymes, AmpC and carbapenemases-producing E. Coli strains	Protocol of DTU Food Laboratory-European Reference Laboratory for Antimicrobial Resistance	Dec2013/652	

19	Caecum	Detection of Campylobacter spp (C.jejuni / C.coli)	ISO 10272-1	Dec2013/652	
20	Campylobacter spp strains	Identification of Campylobacter spp	PCR testing protocol for the differentiation of Campylobacter spp isolates (C. Jejuni, C. Coli), suggested by the European Reference Laboratory for Antimicrobial resistance (2nd ed, November 2013)	Dec2013/652	
21	Enterobacteriaceae strains	Molecular testing for the detection of plasmids mediating the transfer of colistin to Enterobacteriaceae isolates	PCR testing protocol for the detection of plasmids mediating the transfer of colistin to Enterobacteriaceae isolates, suggested by the European Reference Laboratory for Antimicrobial resistance (2nd ed, October 2016)	Dec2013/652	

## **A.8 DVCA/DEPARTMENT: VETERINARY LABORATORY OF TRIPOLIS**

Pelagos of Arcadia, 22100 Tripolis

tel: +30 2710 226849, fax: +30 2710 232909

[arcadialab@minagric.gr](mailto:arcadialab@minagric.gr)

### **NATIONAL REFERENCE LABORATORY**

Residues of substance groups A6 (chloramphenicol, nitrofurans) and B2c of Annex I of Directive 96/23/EC

### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Zoonoses & zoonotic agents (Brucellosis)

Bovine leucosis

Visna-Maedi

Paratuberculosis

Listeriosis

Honeybee health

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Milk, fish, eggs, meat and honey	Determination of chloramphenicol content	Modified method Afssa-Fougeres: "Methode de confirmation des residues de chloramphenicol dans les matrices d'origine biologique par lc/ms-ms"	Dec2002/657	ESYD 465-3
2	Eggs, meat, fish and honey	Determination of nitrofurane metabolites	Modified method Afssa-Fougeres: "Determination de residues de nitrofuranes (metabolites) dans les tissus par LC/MS-MS"	Dec2002/657	ESYD 465-3

3	Honey	Detection and quantification of carbamates Aldicarb, Carbaryl, Carbofuran, Methomyl, Oxamyl, Methiocarb, Methiocarb Sulfoxide, Pirimicarb, Pirimicarb, Desmethyl, Fenoxycarb, Propoxur	In house LC/MS-MS method validated according to the Decision EC 657/2002	Dec2002/657, SANTE/11945/2015	ESYD 465-3
4	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	ESYD 465-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
5	Honey	Determination of pyrethroids Tau-FLUVALINATE, DELTAMETHRIN, Lambda-CYHALOTHRIN, B-CYFLUTHRIN, BIFENTHRIN, CYPERMETHRIN (mixture of isomers), PERMETHRIN (mixture of isomers), FENPROPATHRIN	LC-MS/MS	Dec2002/657, SANTE/11945/2015	Validated
6	Drinking Water	Determination of nitrofurane metabolites	Modified method Afssa-Fougeres: "Determination de residues de nitrofuranes (metabolites) dans les tissus par LC/MS-MS"	Dec2002/657	Validated
7	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	

8	Blood serum samples of sheep & goat	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	
9	Blood serum samples of domestic or wild ruminants	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	
10	Blood serum samples of bovine	Detection of antibodies against Bovine Leucosis Virus	ELISA Test according to the Commission Directive 64/432/EC, the Decision 2009/976/EE and the OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012	Dir64/432/EEC, Dec2009/976/EU	
11	Blood serum samples of Sheep & Goat	Detection of antibodies against Maedi Visna – CAE viruses	ELISA	OIE Terrestrial Manual 2018 Chapter 3.7.2/3	
12	Blood serum samples of Sheep & Goat	Detection of antibodies against <i>Chlamydomphila abortus</i> (Chlamydial Abortions in Sheep & Goat)	ELISA	OIE Terrestrial Manual 2018 Chapter 3.1.16.	
13	Blood serum samples of Sheep & Goat	Detection of antibodies against <i>Coxiella burnetii</i> (Q Fever)	ELISA	OIE Terrestrial Manual 2018 Chapter 3.1.16	
14	Blood serum samples of ruminants	Detection of antibodies <i>Toxoplasma gondii</i>	ELISA	OIE Terrestrial Manual 2018 Chapter 3.9.9.	
15	Blood serum samples of ruminants	Detection of antibodies <i>Mycobacterium Avium subsp. Paratuberculosis</i>	ELISA	OIE Terrestrial Manual 2018 Chapter 3.1.15.	
16	Blood smears of food-producing animals	Detection of parasites	Microscopic examination of blood stained with Giemsa	O.I.E. Terrestrial Manual (Protocol and reagents depending on the parasite)	

17	Faecal smears of food-producing animals	Detection of <i>Cryptosporidium</i> spp oocysts	Modified Ziehl-Neelsen stain	OIE Terrestrial Manual 2018 Chapter 3.9.4.	
18	Sections of small/large intestine & mesenteric lymph nodes - Faeces	Detection of <i>Mycobacterium Avium subsp. Paratuberculosis</i>	Microscopic examination, Ziehl-Neelsen Stain.	OIE Terrestrial Manual 2018 Chapter 3.1.15.	
19	Diagnostic Specimens and Milk Samples of food-producing animals	Detection of <i>Pasteurella multocida/Mannheimia haemolytica, Staphylococcus</i> spp., <i>Streptococcus</i> spp., <i>Pseudomonas</i> spp., <i>Escherichia coli</i> , <i>Klebsiella</i> spp., <i>Enterobacter</i> spp.	Culture, isolation, identification.	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
20	Brain Sections	Detection of <i>Listeria monocytogenes</i>	Culture, isolation, identification.	ISO 11290-1:2017	
21	Lung tissue, synovial fluid, milk samples	Detection of <i>Mycoplasma</i> spp.	Culture, isolation, identification.	OIE Terrestrial Manual 2018 Chapter 3.7.4.	
22	Bacterial Pathogens Isolates	Monitoring of Antimicrobial Resistance of Bacterial Pathogens with the Disk Diffusion agar test.	Antimicrobial Susceptibility–Agar Disk Diffusion Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast.	CLSI M2 M100 EUCAST	
23	<i>Apis mellifera</i> honey bees and brood.	Diagnosis of Varroosis / Infestation with <i>Varroa destructor</i>	Macroscopic & Microscopic Examination	OIE Terrestrial Manual 2018 Chapter 3.2.7.	
24	<i>Apis mellifera</i> honey bees	Diagnosis of Nosemosis	Microscopic Examination	OIE Terrestrial Manual 2018 Chapter 3.2.4.	
25	<i>Apis mellifera</i> honey bees	Diagnosis of Acarapisosis / Infestation with <i>Acarapis Woodi</i>	Microscopic Examination	OIE Terrestrial Manual 2018 Chapter 3.2.1.	
26	<i>Apis mellifera</i> Brood	Diagnosis of European Foulbrood / Infestation with <i>Melissococcus Plutonius</i>	Microscopic Examination, identification.	OIE Terrestrial Manual 2018 Chapter 3.2.3.	
27	<i>Apis mellifera</i> Brood	Diagnosis of American Foulbrood / Infestation with <i>Paenibacillus larvae</i>	Culture, isolation, identification.	OIE Terrestrial Manual 2018 Chapter 3.2.2.	
28	<i>Apis mellifera</i> honey bees and brood.	Infestation of Honey Bees with <i>Tropilaelaps</i> spp.	Macroscopic & Microscopic Examination	OIE Terrestrial Manual 2018 Chapter 3.2.6.	

29	Apis mellifera honey bees, brood and beehives.	Infestation with <i>Aethina tumida</i> (Small Hive Beetle)	Macroscopic Examination & Stereoscopy	OIE Terrestrial Manual 2018 Chapter 3.2.5.	
30	<i>Apis mellifera</i> honey bees	Infestation with <i>Malpighamoeba mellificae</i>	Microscopic Examination	Bibliography	
31	<i>Apis mellifera</i> brood.	Infestation with <i>Ascospaera apis</i>	Microscopic Examination	Bibliography	
32	<i>Apis mellifera</i> brood.	Infestation with <i>Aspergillus flavus</i>	Microscopic Examination	Bibliography	



## A.9 DVCA/DEPARTMENT: VETERINARY LABORATORY OF CHANIA

M. Mpotsari 66, Chania, Zip . 73136, Prefecture of Chania

tel: +30 28210 96189, fax: +30 28210 88397

[kex@otenet.gr](mailto:kex@otenet.gr)

### NATIONAL REFERENCE LABORATORY

Residues of substance group B1 of Annex I of Directive 96/23/EC in honey

#### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)

Paratuberculosis

Visna-Maedi

Contagious agalactia of small ruminants

Honeybee health

#### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Honey	Determination of tetracyclines (OTC, TC, CTC, DTC)	In house Method (MA01) using HPLC validated according to the Decision EC 657/2002	Dec2002/657	ESYD 481-4

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
2	Honey	Determination of streptomycine	HPLC-FLD with PCD	Dec2002/657	Validated
3	Honey	Determination of sulfonamides	HPLC-FLD	Dec2002/657	Validated
4	<i>Apis mellifera</i> honey bees	Average <i>Nosema</i> sp. spore count per sample	Spore counts in a haemocytometer	OIE Terrestrial Manual 2014 2.2.4 / MD 4424/137557/11.11.2013	

5	<i>Apis mellifera</i> honey bees and brood	<i>Varroa destructor</i> infestation	Macroscopic & microscopic examination	OIE Terrestrial Animal Health Code- Article 9.6, OIE Terrestrial Manual 2014 2.2.7 , MD 4424/137557/11.11.2013	
6	<i>Apis mellifera</i> honey bees	<i>Tropilaelaps</i> sp. infestation	Macroscopic & microscopic examination	OIE Terrestrial Animal Health Code- Article 9.5, OIE Terrestrial Manual 2014 2.2.6	
7	<i>Apis mellifera</i> honey bees	Detection of <i>Malpighamoeba mellifica</i>	Microscopy		
8	Honey bees, brood	Detection of <i>Paenibacillus larvae</i> (AFB)	Culture-microscopy-catalase testing	OIE Terrestrial Animal Health Code- Article 9.2, OIE Terrestrial Manual 2014 Chapter 2.2.2	
9	Honey bees, brood	Detection of <i>Melissococcus plutonius</i> (EFB)	Microscopy	OIE Terrestrial Animal Health Code- Article 9.3, OIE Terrestrial Manual 2014 Chapter 2.2.3	
10	Brood	Detection of <i>Ascosphaera apis</i>	Macroscopic observation & microscopy	Beebook, coloss	
11	Brood	Detection of <i>Aspergillus flavus</i>	Macroscopic observation & microscopy	Beebook, coloss	
12	Honey bees, brood, beehives	Small Hive Beetle infestation	Macroscopic observation & stereoscopy	OIE Terrestrial Manual 2014 Chapter 2.2.5	
13	Adults, larvae	Detection of <i>Galleria mellonella</i>	Macroscopic observation	Beebook, coloss	
14	Adults, larvae	Detection of <i>Achroia grisella</i>	Macroscopic observation	Beebook, coloss	
15	Sheep & goat whole blood or blood serum	Detection of antibodies against Maedi Visna – CAE viruses	ELISA, Agar gel immunodiffusion test	O.I.E. / 4 <sup>th</sup> ed.,2000, OIE Terrestrial Manual 2017 Chapter 2.7.2/3	
16	Blood serum originating from ruminants	Detection of mycobacterium avium spp. <i>paratuberculosis</i> antibodies	ELISA	Directive 64/432 OIE Terrestrial Manual 2014 Chapter 2.1.15	
17	Sheep and goat milk	Detection of <i>Mycoplasma agalactiae</i> (Contagious Agalactia)	Culture & stereoscopy	OIE Terrestrial Manual 2013, Chapter 2.7.4	
18	Milk	Mastitis test	Whiteside test, culture, microscopy, biochemical testing & antibiogram		
19	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir 64/432	

## A.10 DVCA/DEPARTMENT: VETERINARY LABORATORY OF HERACLION

Port of Heraklio, Pier 03, Heraklion, Crete, Greece

tel: +30 2810280869, fax: +30 2810341743

[vetlabher@gmail.com](mailto:vetlabher@gmail.com)

### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)

Bovine leucosis

Microbiological criteria for foodstuffs

Honeybee health

### ACCREDITED TESTS PERFORMED

	Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used	Documentation	Certificate number
1	Food and animal feeding stuff	Detection of <i>Salmonella spp</i> (except <i>S. typhi</i> , <i>S. paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005 Reg1774/2002	ESYD 585-3
2	Foodstuffs and animal feeding stuffs	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:1996/Amd1:2004	Reg2073/2005 Reg1441/2005 Reg365/2010	ESYD 585-3
3	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432	ESYD 585-3
4	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC, Reg535/2002	ESYD 585-3
5	Animal faeces and samples from the primary production stage	Detection of <i>Salmonella spp</i> (except <i>S. typhi</i> , <i>S. paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD 585-3

NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
6	Food and Animal feeding stuffs	Enumeration of coagulase positive <i>staphylococcus</i>	ISO 6888-2:1999/ Amd1: 2003	Reg2073/2005 Reg1441/2005 Reg365/2010	
7	Food and Animal feeding stuffs	Enumeration of the total aerobic microorganisms at 30 °C by the pour plate technique	ISO 4833-1:2013	Reg2073/2005 Reg1441/2005 Reg365/2010 Dec1545/70158	
8	Food and Animal feeding stuffs	Enumeration of b- glucuronidase-positive <i>Escherichia coli</i> in agar	ISO 16649-2:2001	Reg2073/2005 Reg1441/2005 Reg365/2010	
9	Food and Animal feeding stuffs	Detection and enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2: 2004	Reg2073/2005 Reg1441/2005 Reg365/2010 Dec1545/70158	
10	Food and Animal feeding stuffs	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2: 1998 / Amd 1:2004	Reg2073/2005 Reg1441/2005 Reg365/2010	
11	Food and Animal feeding stuffs	Enumeration of the total aerobic microorganisms at 30 °C by the surface plating technique	ISO 4833-2:2013	Reg2073/2005 Reg1441/2005 Reg365/2010	
12	Foodstuffs	Yeast and mould count	ISO 21527-1:2008	Reg2073/2005 Reg1441/2005	
13	Blood serum	Enzootic leucosis antibodies detection	Agar gel immunodiffusion		
14	Milk	Mastitis test	Culture & antibiogram		
15	<i>Apis mellifera</i> honey bees and brood	<i>Varroa destructor</i> infestation	Macroscopic & microscopic examination and characterization / OIE <i>Terrestrial Manual</i> 2014 2.2.7	OIE Terrestrial Animal Health Code , Article 9.6	
16	<i>Apis mellifera</i> honey bees	<i>Tropilaelaps</i> sp. infestation	Macroscopic & microscopic examination and characterization / OIE <i>Terrestrial Manual</i> 2014 2.2.6	OIE Terrestrial Animal Health Code, Article 9.5.	
17	<i>Apis mellifera</i> honey bees	Average <i>Nosema</i> sp. spore count per sample	Spore counts in a haemocytometer / OIE <i>Terrestrial Manual</i> 2014 2.2.4	MD 4424/137557/11.11.2013	
18	<i>Apis mellifera</i> honey bees	Detection of <i>Malpighamoeba mellificae</i>	Microscopy		
19	Honey bees, brood	Detection of <i>Melissococcus plutonius</i> (EFB)	Culture-microscopy / OIE <i>Terrestrial Manual</i> 2014 Chapter 2.2.3	OIE Terrestrial Animal Health Code , Article 9.3.	

20	Honey bees, brood	Detection of <i>Paenibacillus larvae</i> (AFB)	Culture-microscopy / OIE <i>Terrestrial Manual</i> 2014 Chapter 2.2.2	OIE Terrestrial Animal Health Code , Article 9.2.	
21	Brood	Detection of <i>Ascosphaera apis</i>	Macroscopic observation & microscopy (Beebook, coloss)		
22	Brood	Detection of <i>Aspergillus flavus</i>	Macroscopic observation & microscopy (Beebook, coloss)		
23	Honey bees, brood, beehives	Small Hive Beetle infestation	Macroscopic observation & stereoscopy - OIE <i>Terrestrial Manual</i> 2014 2.2.5		
24	Adult wasps	Detection of <i>Vespa velutina</i> and other Vespidae sp.	Macroscopic observation & stereoscopy (EURL, method)		
25	Adults, larvae	<i>Detection of Galleria mellonella</i>	Macroscopic observation & stereoscopy (BeeBook, Coloss)		
26	Adults, larvae	<i>Detection of Achromia grisella</i>	Macroscopic observation & stereoscopy (BeeBook, Coloss)		
27	Faecal smears of all animals and birds	Detection of parasites (eggs, larvae, protozoan oocysts or cysts etc)	Microscopy/Sedimentation/ Flotation		
28	Internal organs	Detection of <i>pathogens</i>	Culture, isolation, identification		
29	Milk and udder secretions	Detection of <i>Escherichia coli</i> , <i>Klebsiella</i> spp, <i>Enterobacter</i> spp and other enterobacteriaceae	Culture, microscopy, biochemical testing		
30	Milk and udder secretions	Detection of <i>Staphylococcus aureus</i> & coagulase negative staphylococci	Culture, microscopy, biochemical testing		
31	Milk and udder secretions	Detection of <i>Streptococcus agalactiae</i> , <i>Streptococcus uberis</i> , <i>Streptococcus dysgalactiae</i>	Culture, microscopy, biochemical testing		
32	Milk and udder secretions	Detection of <i>Enterococcus</i> spp, <i>Proteus</i> spp, <i>Pasteurella</i> spp, <i>Pseudomonas</i> spp, <i>Mycoplasma</i> spp, <i>Corynebacterium</i> spp, <i>Trueperella pyogenes</i>	Culture, microscopy, biochemical testing		
33	Canned foods	Incubation test at 30oC & 55oC	APHA 1992, Compendium Methods 3rd ed		

34	Animal tissues and milk	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	Method OE 504A-12 based on the method 'Screening Test for Antibiotic Residues-STAR Protocol' of the NRL-Residues	Reg470/2009 Reg758/2010 Reg84/2012 Reg931/2011	Reg37/2010 Reg759/2010 Reg86/2012 Reg726/2004
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## **A.11 DVCA/DEPARTMENT: VETERINARY LABORATORY OF PATRAS**

15 Notara str, Patras, 26442

tel: +30 2610 427383, fax: +30 2610 454027

[kepatra@otenet.gr](mailto:kepatra@otenet.gr)

### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Milk and milk products (alkaline phosphatase activity)

Microbiological criteria for foodstuffs

Residues of substance group A6 (chloramphenicol) of Annex I of Directive 96/23/EC

Zoonoses & zoonotic agents (Brucellosis)

### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Foods in form of liquid or powder (Cat. 1) & Homogeneous solid food (Cat. 2)	Enumeration of the total aerobic microorganisms at 30 °C.	ISO 4833-1:2013	Reg2073/2005	ESYD 769-3
2	Foods in form of liquid or powder (Cat. 1) & Homogeneous solid food (Cat. 2)	Detection and enumeration of Enterobacteriaceae	ISO 21528-2:2017	Reg2073/2005	ESYD 769-3
3	Food except foods in form of liquid or powder, homogeneous solid food and small solid food (Cat. 4).	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005	ESYD 769-3
4	Food except foods in form of liquid or powder, homogeneous solid food and small solid food (Cat. 4)	Enumeration of the total aerobic microorganisms at 30 oC	ISO 4833-1:2013	Reg2073/2005	ESYD 769-3

5	Food except foods in form of liquid or powder, homogeneous solid food and small solid food (Cat. 4)	Detection and enumeration of Enterobacteriaceae	ISO 21528-2:2017	Reg2073/2005	ESYD 769-3
6	Homogeneous solid food (Cat. 2)	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005	ESYD 769-3
7	Milk	Determination of alkaline phosphate (ALP)	ISO/DIS 11816-1:2013	Reg1664/2006	ESYD 769-3
8	Cheese	Determination of alkaline phosphate (ALP)	ISO/DIS 11816-2:2016	Reg1664/2006	ESYD 769-3
9	Food except foods in form of liquid or powder, homogeneous solid food and small solid food (Cat. 4)	Detection <i>Salmonella spp</i> (except <i>Typhi</i> & <i>Paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005	ESYD 769-3
10	Homogeneous solid food (Cat. 2)	Detection <i>Salmonella spp</i> (except <i>Typhi</i> & <i>Paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005	ESYD 769-3
11	Food except foods in form of liquid or powder, homogeneous solid food and small solid food (Cat. 4)	Enumeration of <i>Escherichia coli</i>	ISO/DIS 16649-2:2001	Reg2073/2005	ESYD 769-3
12	Homogeneous solid food (Cat. 2)	Enumeration of <i>Escherichia coli</i>	ISO/DIS 16649-2:2001	Reg2073/2005	ESYD 769-3
13	Ruminants serum	Antibody detection <i>Brucella melitensis</i> , <i>B. Abortus</i> & <i>B. suis</i>	Rose Bengale test reportedly with 535/2002 EC regulation and chapter C of 64/432/EEC and 2000/330/EC	Dir64/432	ESYD 769-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
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14	Milk, fish, meat, honey, eggs	Determination of chloramphenicol content (screening)	ELISA	Dec2002/657	Validated
15	Sheep and goats serum	Detection of antibodies against <i>Brucella melitensis</i>	Complement Fixation Test (C.F.T.) reportedly with 535/2002 EC regulation and chapter C of 64/432/EEC and 2000/330/EC	Dir64/432/EEC, Reg535/2002	
16	Milk & Milk products	Enumeration of colony-forming units of yeasts and/or moulds-colony count technique at 25°C	ISO 6611:2004	Reg2073/2005	
17	Food & animal feeding stuffs	Enumeration of coagulase-positive <i>Staphylococci</i>	ISO 6888-2:1999/Amd:2003	Reg2073/2005	
18	Food & animal feeding stuffs	Enumeration of coliforms	ISO 4832:2006	Reg2073/2005	
19	Sampling techniques using swabs on surfaces in food processing plants	Detection and Enumeration of viable microorganisms	ISO 18593:2018	ISO 18593:2018	
20	Bivalve molluscs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i>	ISO 16649-3:2005	Reg2073/2005	

## A.12 DVCA/DEPARTMENT: VETERINARY LABORATORY OF RHODES

4th Km Kallithea Avenue, P.C. 85100, Rhodes, Greece

tel: +30 22410 65444, fax: +30 22410 67193

[vetlab\\_r@yahoo.gr](mailto:vetlab_r@yahoo.gr)

### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)

Bovine leucosis

Parasites (Trichinella)

Microbiological criteria for foodstuffs

Animal by-products

Residues of substance group B1 of Annex I of Directive 96/23/EC

### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Food and Animal feeding stuffs (including carcasses of cattle, sheep, goats, pigs and poultry)	Detection of <i>Salmonella spp</i> (except <i>svs typhi and paratyphi</i> )	ISO 6579-1:2017 ISO 17604:2015	Reg2073/2005	ESYD 475-3
2	Food and Animal feeding stuffs	Enumeration of coagulase positive <i>staphylococcus</i>	ISO 6888-2:1999/ Amd1: 2003	Reg2073/2005	ESYD 475-3
3	Food and Animal feeding stuffs (including carcasses of cattle, sheep, goats, pigs)	Enumeration of the total aerobic microorganisms at 30 °C by the pour plate technique	ISO 4833-1:2013 ISO 17604:2015	Reg2073/2005	ESYD 475-3
4	Food and Animal feeding stuffs	Enumeration of b- glucuronidase-positive <i>Escherichia coli</i> in agar	ISO 16649-2:2001	Reg2073/2005	ESYD 475-3
5	Food and Animal feeding stuffs (including carcasses of cattle, sheep, goats, pigs)	Enumeration of <i>Enterobacteriaceae</i>	ISO 21528-2: 2017 ISO 17604:2015	Reg2073/2005	ESYD 475-3

6	Food and Animal feeding stuffs	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1: 2017	Reg2073/2005	ESYD 475-3
7	Food and Animal feeding stuffs	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2: 2017	Reg2073/2005	ESYD 475-3
8	Food and Animal feeding stuffs	Enumeration of the total aerobic microorganisms at 30 °C by the surface plating technique	ISO 4833-2:2013	Reg2073/2005	ESYD 475-3
9	Animal faeces & environmental samples from the primary production stage	Detection of <i>Salmonella spp (except svv typhi and paratyphi)</i>	ISO 6579-1: 2017	Reg2160/2003	ESYD 475-3
10	Animal tissues and milk	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	Test Method MA.07-PΔKE based on the method 'Screening Test for Antibiotic Residues-STAR Protocol' of the NRL-Residues	Reg37/2010	ESYD 475-3
11	Pork meat	Detection of parasite <i>Trichinella spp.</i>	Magnetic stirrer method for pooled - sample digestion (CRL Protocol according to European Union Commission Regulation No. 1375/2015) ISO 18743:2015	Reg1375/2015	ESYD 475-3
12	Blood serum of ruminants	Detection of antibodies against <i>B. abortus/ B. melitensis/ B. suis/ B. ovis</i>	Rose Bengal Test (R.B.) according to Directive 64/432/EEC (and its updates)	Dir64/432	ESYD 475-3
13	Blood serum of ruminants	Detection of antibodies against <i>B. abortus/ B. melitensis/ B. suis/ B. ovis</i>	Complement Fixation Test (CFT)	Dir64/432	ESYD 475-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
14	Milk and milk products	Count of yeast and moulds at 25 oC	ISO 6611:2004	Reg2073/2005	
15	Milk and udder secretions	Mastitis test	Whiteside test/ CMT		
16	Milk and udder secretions	Bacterial isolation, Antibiogramma	Antimicrobial Susceptibility–Agar Disk Diffusion Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast	CLSI M2 M100 EUCAST	

17	Internal organs	Bacterial detection (Gram+, Gram-)	Staining, microscopy, culture, isolation		
18	Faecal smears of all animals and birds	Detection of parasites (eggs, larvae, protozoan oocysts or cysts etc)	Microscopy/Sedimentation/Flotation		
19	Bovine blood serum	Enzootic leucosis antibodies detection	ELISA	OIE Terrestrial Manual 2009 Chapter 2.04.10	
20	Bovine blood serum	Enzootic leucosis antibodies detection	Agar gel immunodiffusion (AGID)	OIE Terrestrial Manual 2009 Chapter 2.04.10	
21	Bovine blood serum	Detection of antibodies against <i>Brucella spp</i>	ELISA (Brucellosis Antibody Test Kit) for bovines OIE <i>Terrestrial Manual, 2009</i> Chapter3.2.1	OIE Terrestrial Manual, 2009 Chapter3.2.1	

## DIRECTORATE OF VETERINARY CENTER OF THESSALONIKI (DVCTh)

### **B.1 DVCTh/DEPARTMENT OF VIRAL, RICKETTSIAL DISEASES AND TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES**

80, 26th Oktovriou Street, 546 27 Thessaloniki

tel: +30 2310 566038, +30 2310 566039, fax: +30 2310 566951, +30 2310 566035

[kkith@otenet.gr](mailto:kkith@otenet.gr), [violtse@gmail.com](mailto:violtse@gmail.com)

#### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Bovine Spongiform Encephalopathy & Small ruminants Transmissible Spongiform Encephalopathies

Bovine Leucosis

Visna-Maedi

Q Fever

Porcine Reproductive & Respiratory Syndrome

Equine Infectious Anaemia

BVD-MD

Bovine malignant catarrhal fever

#### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Nervous tissue from the obex area of brainstem of bovines and small ruminants (sheep and goats)	Immuno-enzymatic Elisa test (sandwich format) for the detection of the abnormal, resistant to proteinase prion protein in samples from the Central Nervous System of infected animals	Rapid test TeSeE (BIORAD) Note: Purification, concentration and solubilisation of the PrPres in the samples must precede	Reg.999/2001 & Reg.270/2002	ESYD 844-2
2	Bovine blood serum, plasma, milk	Detection of antibodies against Enzootic Bovine Leucosis Virus	ELISA immunosorbent assay (indirect)	Council Directive 64/432/EEC, Ministerial Decision 286861/31.12.2003, OIE Terrestrial Manual 2019 – Chapter 3.4.9	ESYD 844-2

## NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
3	Bovine blood serum	Detection of antibodies against Enzootic Bovine Leucosis Virus	Agar gel immunodiffusion test AGID	Council Directive 64/432/EEC, Ministerial Decision 286861/31.12.2003, OIE Terrestrial Manual 2019 – Chapter 3.4.9	
4	Bovine blood serum, plasma & milk	Detection of antibodies against IBR- IPV-IPB virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.4.11.	
5	Bovine blood serum, plasma & milk	Detection of antibodies against BVD-MD virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.4.7.	
6	Bovine blood serum, plasma or whole blood	Detection of BVD-MD virus antigen	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.4.7.	
7	Bovine blood serum	Detection of antibodies against Bovine Respiratory Syncytial Virus RSV	ELISA		
8	Bovine blood serum	Detection of antibodies against Bovine Parainfluenza PI3 virus	ELISA		
9	Bovine blood serum	Detection of antibodies against Malignant Catarrhal Fever, MCF, virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.4.13.	
10	Sheep & goat blood serum	Detection of antibodies against Maedi Visna – CAE viruses	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.7.2.	
11	Blood serum from ruminants	Detection of antibodies against Chlamydia abortus (chlamydial abortions in sheep & goat)	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.7.5.	
12	Sheep & goat placental cotyledons	Detection of Chlamydia trachomatis antigen	IHC (Immunohistochemistry)	OIE Terrestrial Manual 2019 – Chapter 3.7.5.	
13	Blood serum, plasma & milk from ruminants	Detection of antibodies against Coxiella burnetii (Q Fever)	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.1.16.	
14	Sheep & goat blood serum	Detection of antibodies against Border Disease virus (BVD like)	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.7.1.	
15	Swine blood serum, plasma	Detection of antibodies against Aujeszky's Disease virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.1.2.	

16	Swine blood serum, oral fluids	Detection of antibodies against Porcine Reproductive & Respiratory Syndrome (PRRS) virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.8.6.	
17	Equine blood serum	Detection of antibodies against Equine Infectious Anaemia virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.5.6.	
18	Equine blood serum	Detection of antibodies against Equine Rhinopneumonitis virus	ELISA	OIE Terrestrial Manual 2019 – Chapter 3.5.9.	

## **B.2 DVCTh / DEPARTMENT OF FOOD MICROBIOLOGY, BIOCHEMICAL & PHYSICOCHEMICAL FOOD CONTROL, RESIDUES AND MARINE BIOTOXINS & TOXINS IN OTHER WATERS**

80, 26th Oktovriou Street, & 3A, LIMNOY street, 546 27 Thessaloniki

tel:2310 552928, 2310 566056, 2310 544925

Fax: 2310 566581, 2310 544927, 2310 566055

[biotoxin@minagric.gr](mailto:biotoxin@minagric.gr), [iytmicrob@gmail.com](mailto:iytmicrob@gmail.com), [reslabkkith@yahoo.gr](mailto:reslabkkith@yahoo.gr)

### **NATIONAL REFERENCE LABORATORY**

Monitoring of marine biotoxins

#### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Microbiological criteria for foodstuffs

Bacteriological contamination of bivalve molluscs

Animal by-products

Antimicrobial resistance

Residues of substance group B3c of Annex I of Directive 96/23/EC

#### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Shellfish (bivalve molluscs)	Analysis of lipophilic toxins in shellfish by mouse bioassay. Qualitative determination of okadaic acid, dinophysistoxins, pectenotoxins, yessotoxins and azaspiracids. Detectable lipophilic toxins concentration of at least 160 µg okadaic acid equivalents/kg and upwards	Test method (ΔMT.01) for the analysis of lipophilic toxicity in shellfish by mouse bioassay, based on the standard method of Yasumoto et al. (1978) as recommended by the European Union Reference Laboratory of Marine Biotoxins (AESAN, Campus Universitario de Vigo, As Lagoas-Marcosende, Vigo, Spain)	Reg.2074/2005 Reg.15/2011	ESYD 493-3



2	Shellfish (bivalve molluscs)	Analysis of PSP toxicity in shellfish by mouse bioassay. Range: at least 400 µg STX diHCl equivalents/kg and upwards	Test method (ΔMT.02) for the analysis of PSP toxicity in shellfish by mouse bioassay, based on the AOAC official method 959.08	Reg.2074/2005	ESYD 493-3
3	Shellfish and finfish	Determination of domoic acid concentration (ASP toxins). Range: ≥1.0 mg of domoic acid equivalents/kg and upwards.	Internal method (ΔMT.03) validated according to the requirements of the Decision 2002/657/EC by the European Union Reference Laboratory of Marine Biotoxins (AESAN, Campus Universitario de Vigo, As Lagoas-Marcosende, Vigo, Spain) by use of High Performance Liquid Chromatography with Ultraviolet Detection by Diode Array Detector (HPLC-UV-DAD)	Reg.2074/2005	ESYD 493-3
4A	Shellfish (bivalve molluscs)	Determination of lipophilic toxins (LPTXs): a) Okadaic group (Okadaic acid-OA, dinophysistoxins-DTXs, pectenotoxins-PTXs). Range: at least 20 µg OA equivalents/kg and upwards b) Yessotoxins (YTXs). Range: at least 0,078mg YTX equivalents/kg and upwards c) Azaspiracids (AZAs). Range: at least 10 µg AZA equivalents/kg and upwards (Regulation (EC) 853/2004, as amended and in force) d) Gymnodimins (GYMs) Spirolides (SPXs) Pinnatoxins (PnTXs) (Lipophilic toxins not included in Regulation (EC) 853/2004, as amended and in force)	Internal method (ΔMT.06) based on the the European Community Reference Laboratory of Marine Biotoxins (Harmonized Standard Operating Procedure for determination of Lipophilic marine biotoxins in molluscs by LC-MS / MS, Version 5, January 2015) and EN 16204: 2012 using liquid chromatography-coupled mass spectrometry (UPLC-MS / MS).	Reg.2074/2005	ESYD 493-3

4B	Shellfish (bivalve molluscs)	<p>Determination of lipophilic toxins (LPTXs):</p> <p>a) Okadaic group (Okadaic acid-OA, dinophysistoxins-DTXs, pectenotoxins-PTXs). Range: at least 34,2 µg OA equivalents/kg and upwards</p> <p>b) Yessotoxins (YTXs). Range: at least 0,106mg YTX equivalents/kg and upwards</p> <p>c) Azaspiracids (AZAs). Range: at least 17,66 µg AZA equivalents/kg and upwards (Regulation (EC) 853/2004, as amended and in force)</p> <p>d) Gymnodimins (GYMs) Spirolides (SPXs) Pinnatoxins (PnTXs) (Lipophilic toxins not included in Regulation (EC) 853/2004, as amended and in force)</p>	Internal method (ΔMT.07) based on the the European Community Reference Laboratory of Marine Biotoxins (Harmonized Standard Operating Procedure for determination of Lipophilic marine biotoxins in molluscs by LC-MS / MS, Version 5, January 2015) and EN 16204: 2012 using liquid chromatography-coupled mass spectrometry (UPLC-MS / MS).	Reg.2074/2005	ESYD 493-3
5	Animal origin foodstuffs	Determination of cadmium (Cd) content	OE 504 A-1 In-house method using Graphite Furnace Atomic Absorption Spectroscopy	Reg.333/2007, 836/2011, 582/2016, 1881/2006, 629/2008, 420/2011, 488/2014, 1005/2015	ESYD 492-4
6	Animal origin foodstuffs	Determination of lead (Pb) content	OE 504 A-2 In-house method using Graphite Furnace Atomic Absorption Spectroscopy	Reg.333/2007, 836/2011, 582/2016, 1881/2006, 629/2008, 420/2011, 488/2014, 1005/2015	ESYD 492-4
7	Fish and fishery products	Determination of mercury (Hg) content	OE 504 A-4 In-house method using Atomic Absorption Spectroscopy FI-MH-AAS technique	Reg.333/2007, 836/2011, 582/2016, 1881/2006, 629/2008, 420/2011, 488/2014, 1005/2015	ESYD 492-4
8	Fish and fishery products	Determination of Histamine	OE 504 A-3 In-house method based on the Reference method of Regulation (EC) 2073/2005 by HPLC-DAD	Reg.2073/2005, 1441/2007, 1019/2013	ESYD 492-4

9	Fish and fish products. Milk and milk products. Meat and meat products, animal feeding stuff, eggs and egg products	Detection of <i>Salmonella</i> spp. (Salmonella typhi and paratyphi - not included)	ISO 6579:2017	Reg.882/2004, 1441/2007, 854/2004, 2073/2005	ESYD 844-2
10	Molluscan bivalve shellfish	Enumeration of beta-glucuronidase positive <i>Escherichia Coli</i>	ISO 16649-3:2015	Reg.882/2004, 1441/2007, 854/2004, 2073/2005	ESYD 844-2

### **B.3 DVCTh/DEPARTMENT OF AVIAN & BEE DISEASES AND AQUATIC ORGANISMS' PATHOLOGY**

80, 26th Oktovriou Street, 546 27 Thessaloniki  
tel:+30 2310 566051, +30 2310 566066 fax:+30 210 552023  
[gkgeorgi@gmail.com](mailto:gkgeorgi@gmail.com)

#### **NATIONAL REFERENCE LABORATORY**

Avian influenza  
Bivalve molluscs diseases  
Newcastle disease

#### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Zoonoses & zoonotic agents (Salmonella)

West Nile fever  
Avian mycoplasmoses  
Honeybee health  
Fish diseases  
Diseases of crustaceans

#### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Sera samples from domestic and wild birds	Detection of Avian Influenza antibodies	ELISA immunosorbent assay	Kit IDEXX (Avian Influenza) for chicken and turkeys. Kit C-ELISA IDEXX (Avian Influenza) for domestic and wild birds	ESYD 844-2
2	Sera samples from domestic and wild birds	Detection of antibodies to different subtypes of Avian Influenza virus	Haemagglutination Inhibition test	OIE <i>Terrestrial Manual</i> 2015, Ch.2.3.4	ESYD 844-2
3	Chicks, (live and dead), swabs, domestic and wild birds	Avian Influenza matrix, H5, H7 and N1 genes detection	Real-Time RT-PCR	Manual VLA (2005/94/EC and 2006/437/EC)	ESYD 844-2

4	Allantoic fluid from chicken embryonated eggs	Detection and characterization of Avian Influenza virus	Haemagglutination test for the detection of haemagglutinating factor and haemagglutination inhibition test for characterization of Avian Influenza virus	OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.4	ESYD 844-2
5	Live chicks, avian blood and blood serum samples	Detection of Newcastle Disease antibodies	ELISA immunosorbent assay	Kit IDEXX (ND) for chicken, OIE <i>Terrestrial Manual</i> 2018, Ch 3.3.14.	ESYD 844-2
6	Animal Faeces and environmental samples from the primary production stage	Detection of <i>Salmonella</i> spp.	Microbiological assay	ISO 6579-1:2017	ESYD 844-2
7	Bees, brood and beehive debris	Detection of Chronic Bee Paralysis Virus (CBPV) by real time RT-PCR	Real-Time RT-PCR	ANSES/SOP/ANA-I1.MOA.1300, Detection and Quantification of the chronic bee paralysis virus (CBPV) by real-time RT-PCR	ESYD 844-2
8	Bivalve molluscs (mussels, oysters, clams, cockles, Bearded horse mussels)	Cytological and Histological detection of <i>Marteilia</i> sp parasite	Imprints, Histopathology	OIE Manual of diagnostic test for aquatic animals / IFREMER EURL for mollusc diseases	ESYD 844-2

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
9	Embryonated chicken eggs	Isolation of avian influenza virus	Inoculation in embryonated chicken eggs	OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.4.	
10	Embryonated chicken eggs	Isolation of Newcastle disease virus	Inoculation in embryonated chicken eggs	OIE <i>Terrestrial Manual</i> 2018, Ch 3.3.14.	
11	Allantoic fluid from chicken embryonated eggs	Detection and characterization of Newcastle disease virus	Haemagglutination test for the detection of haemagglutinating factor and haemagglutination inhibition test for characterization of Newcastle disease virus	OIE <i>Terrestrial Manual</i> 2018, Ch 3.3.14.	
12	Sera samples from domestic and wild birds	Detection of antibodies to Newcastle disease virus	Haemagglutination Inhibition test	OIE <i>Terrestrial Manual</i> 2018, Ch 3.3.14.	

13	Sera samples from chicken and turkeys	Detection of antibodies to <i>Mycoplasma gallisepticum</i> (Mg)	ELISA immunosorbent assay	Kit IDEXX (Mg), OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.5.	
14	Chicks, (live and dead), swabs	Detection of West Nile fever virus genome	Real-Time RT-PCR	Kit LSI - TaqVet, OIE <i>Terrestrial Manual</i> 2018, Ch.3.1.24.	
15	Sera samples from domestic and wild birds	Detection of antibodies to West Nile fever virus	ELISA immunosorbent assay	Kit ID-Vet, OIE <i>Terrestrial Manual</i> 2018, Ch.3.1.24.	
16	Sera samples from chicken	Detection of antibodies to Avian Pneumovirus (APV)	ELISA immunosorbent assay	Kit IDEXX (APV), OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.15.	
17	Sera samples from chicken	Detection of antibodies to Infectious Bronchitis Virus (IBV)	ELISA immunosorbent assay	Kit IDEXX (IBV), OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.2.	
18	Sera samples from chicken	Detection of antibodies to Infectious Bursal Disease Virus (IBDV)	ELISA immunosorbent assay	Kit IDEXX (IBDV), OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.12.	
19	Sera samples from chicken and turkeys	Detection of antibodies to <i>Mycoplasma synoviae</i> (Ms)	ELISA immunosorbent assay	Kit IDEXX (Mg), OIE <i>Terrestrial Manual</i> 2018, Ch.3.3.5.	
20	Sera samples from turkeys	Detection of antibodies to <i>Mycoplasma meleagridis</i> (Mm)	ELISA immunosorbent assay	Kit IDEXX (Mm)	
21	<i>Apis mellifera forager</i> honey bees	<i>Nosemosis diagnosis</i> : identification and quantification of <i>Nosema</i> spp. by microscopic examination	Counting in a haemocytometer, number of spores per bee	ANSES/SOP/ANA-I1.MOA.0900 - Version 01.), tou ANSES, Sophia Antipolis Lab- Bee Health, EURL (2017)	
22	<i>Nosema</i> sp. spores in <i>Apis mellifera</i> honey bees	<i>Nosema apis</i> & <i>Nosema ceranae</i> differentiation	conventional PCR	O.I.E. <i>Terrestrial Manual</i> (May 2013) <i>Nosemosis of honey bees</i> (Chapter 2.2.4.)	
23	<i>Apis mellifera</i> honey bees	Detection of <i>Malpighamoeba mellificae</i> cysts	Microscopic examination of malpighian tubules	O.I.E. <i>Terrestrial Manual</i> (2018) <i>Nosemosis of honey bees</i> (Chapter 3.2.4.)	
24	<i>Apis mellifera</i> honey bees and brood, broodcomb, hive debris	<i>Varroa destructor</i> infestation	Macroscopic & microscopic examination and characterization, infestation rate %	<i>Journal of Apicultural Research</i> 52(1): (2013), (Beebook, Coloss), O.I.E. <i>Terrestrial Manual</i> 2018, <i>Varroosis of honey bees</i> (Chapter 3.2.7.),	

25	<i>Apis mellifera</i> honey bees, broodcomb, hive debris	<i>Tropilaelaps</i> sp. infestation	Macroscopic & microscopic examination and characterization	O.I.E. Terrestrial Manual (May 2017) Infestation of honey bees with <i>Tropilaelaps</i> spp (Chapter 2.2.6.), Terrestrial Animal Health Code, Article 9.5.	
26	<i>Apis mellifera</i> honey bees	Acarapisosis of honey bees ( <i>Acarapis woodi</i> )	Macroscopic & microscopic examination and characterization	O.I.E. Terrestrial Manual (May 2008) Acarapisosis of honey bees (Infestation of honey bees with <i>Acarapis woodi</i> ) (Chapter 2.2.1.)	
27	Honey bees, larva/pupa, brood comb	Detection of <i>Paenibacillus larvae</i> (American Foulbrood, AFB)	Culture methods, microscopic examination of staining smears, biochemical tests	O.I.E. Terrestrial Manual (May 2016) American Foulbrood of honey bees (Infection of honey bees with <i>Paenibacillus larvae</i> ) (Chapter 2.2.2.), Terrestrial Animal Health Code, Article 9.2.	
28	Honey bees, brood	Detection of <i>Melissococcus plutonius</i> (European Foulbrood, EFB)	Culture methods, microscopic examination of staining smears	O.I.E. Terrestrial Manual (May 2016) European Foulbrood of honey bees (Infection of honey bees with <i>Melissococcus plutonius</i> ) (Chapter 2.2.3.), Terrestrial Animal Health Code, Article 9.3.	
29	Brood comb, hive debris	Detection of <i>Ascospaera apis</i> (Chalkbrood)	Macroscopic & microscopic examination	Journal of Apicultural Research 52(1): (2013), (Beebook, Coloss)	
30	Brood comb	Detection of <i>Aspergillus flavus</i> (Stonebrood)	Macroscopic & microscopic examination	Journal of Apicultural Research 52(1): (2013), (Beebook, Coloss)	
31	<i>Apis mellifera</i> honey bees, brood comb, beehives	Small Hive Beetle infestation	Macroscopic & stereoscopic examination and characterization	O.I.E. Terrestrial Manual (July 2017) Infestation with <i>Aethina tumida</i> (small hive beetle) (Chapter 2.2.5.), Terrestrial Animal Health Code, Article 9.4.	
32	Hornets and wasps	Detection of <i>Vespa velutina</i> (Asian hornet and others Vespidae sp)	Macroscopic & microscopic examination and characterization	(EURL, method)	
33	Adults, larvae	Detection of <i>Galleria mellonella</i> (Greater wax moth)	Macroscopic & microscopic examination and characterization	Journal of Apicultural Research 52(1): (2013), (Beebook, Coloss)	
34	Adults, larvae	Detection of <i>Achroia grisella</i> (Lesser wax moth)	Macroscopic & microscopic examination and characterization	Journal of Apicultural Research 52(1): (2013), (Beebook, Coloss)	

35	Bivalve molluscs tissue	Detection of parasite <i>Bonamia ostreae</i> / <i>Bonamia exitiosa</i>	Imprints, Histopathology, PCR / Real-Time PCR	OIE Manual of diagnostic test for aquatic animals / IFREMER European Union Reference Laboratory for mollusc diseases	
36	Bivalve molluscs tissue	Detection of parasite <i>Perkinsus marinus</i> / <i>Perkinsus olseni</i>	Imprints, Histopathology, PCR / Real-Time PCR	OIE Manual of diagnostic test for aquatic animals / IFREMER European Union Reference Laboratory for mollusc diseases	
37	Bivalve molluscs tissue	Detection of parasite <i>Mikrocytos mackini</i>	Imprints, Histopathology, PCR / Real-Time PCR	OIE Manual of diagnostic test for aquatic animals / IFREMER European Union Reference Laboratory for mollusc diseases	
38	Bivalve molluscs tissue	Detection of ostreid herpesvirus 1 microvariant	PCR / Real-Time PCR	OIE Manual of diagnostic test for aquatic animals / IFREMER European Union Reference Laboratory for mollusc diseases	
39	Fish tissue	Diagnosis of bacterial diseases in freshwater and saltwater fishes	Culture, Isolation, Identification with biochemical method (API), ELISA, PCR	Directive 88/2006, Decision 1554/2015	
40	Fish tissue	Isolation and identification of nematode parasites of <i>Anisakidae</i> family	Artificial digestion, Multiplex PCR	European Union Reference Laboratory for Parasites	
41	Fish tissue	Identification of monogenic and digenic trematoda parasites	Microscopy	In house method	
42	Crustaceans tissue	Identification of crustacean parasites	Microscopy	In house method	



#### B.4 DVCTh/DEPARTMENT OF MICROBIOLOGY, INFECTIOUS DISEASES & BRUCELLOSIS

80, 26th Oktovriou Street, 546 27 Thessaloniki  
 tel:+30 2310 566045, fax:+30 2310 552023  
[bactlabthes@gmail.com](mailto:bactlabthes@gmail.com), [kkith@otenet.gr](mailto:kkith@otenet.gr)

##### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)  
 Paratuberculosis  
 Listeriosis  
 Contagious agalactia in small ruminants  
 Anthrax

##### ACCREDITED TESTS PERFORMED

	Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used	Documentation	Certificate number
1	Blood serum samples of ruminants	ELISA immunosorbent assay for the detection of paratuberculosis disease antibodies	Indirect ELISA M. paratuberculosis PrioCHECK-PARACHEK2 screening kit for ruminants	OIE Terrestrial Manual,2014 Chapter 3.1.15.	ESYD 844-2
2	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg.535/2002	ESYD 844-2

##### NON-ACCREDITED TESTS PERFORMED

	Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used	Documentation	Comments
3	Blood serum of ruminants	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i>	Complement Fixation Test	Reg.535/2002, MD 2473/98135/OGG2943B/2018, MD 3339/117339/OGG3589B/2016, OIE Terrestrial Manual,2016 Chapter	

				3.1.4	
4	Bovine blood serum	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i>	Indirect ELISA Brucellosis Antibody Test Kit for Bovines	Reg.535/2002, MD 2473/98135/OGG2943B/2018, OIE Terrestrial Manual,2016 Chapter 3.1.4	
5	Bovine milk serum	Detection of antibodies against <i>Brucella abortus</i>	Indirect ELISA Brucellosis Antibody Test Kit for Bovines	Reg.535/2002 MD 2473/98135/OGG2943B/2018, OIE Terrestrial Manual,2016 Chapter 3.1.4	
6	Spleen/blood	Detection of <i>Bacillus anthracis</i>	Culture, microscopy	OIE Terrestrial Manual,2018 Chapter 3.1.1	
7	Small/large intestine & mesenteric lymph nodes - Faeces	Detection of <i>Mycobacterium paratuberculosis</i>	Microscopy	OIE Terrestrial Manual,2014 Chapter 3.1.15	
8	Myocardium, muscles, bones, internal organs	Detection of <i>Clostridium chauvoei</i> , <i>Clostridium perfringens</i>	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
9	Brain and liver	Detection of <i>Listeria monocytogenes</i>	Culture, microscopy, biochemical testing (ISO 11290-1:2017)	OIE Terrestrial Manual,2014 Chapter 3.9.6	
10	Intestines, faeces, mesenteric lymph nodes	Detection of <i>Salmonella</i> spp	Culture, microscopy, biochemical testing (ISO 6579-1:2017)	OIE Terrestrial Manual,2016 Chapter 3.9.8	
11	Lung tissue, synovial fluid, milk secretion	Detection of <i>Mycoplasma</i> spp	Culture, stereoscopy	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
12	Sheep and goat blood serum	Detection of antibodies against <i>Mycoplasma agalactiae</i>	ELISA (Pourquier ELISA Mycoplasma agalactiae verification IDEXX)	OIE Terrestrial Manual 2018, Chapter 3.7.3	
13	Lung tissue	Detection of <i>Pasteurella multocida</i> / <i>Mannheimia haemolytica</i>	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
14	Aborted fetuses, preputial washing	Detection of <i>Campylobacter</i> spp & <i>Tritrichomonas</i> spp	Culture, microscopy, biochemical testing (ISO 10272-1:2017)	OIE Terrestrial Manual,2017 Chapter 3.4.4 & OIE Terrestrial Manual,2018 Chapter 3.4.15	
15	Internal organs	Detection of <i>Escherichia coli</i> , <i>Corynebacterium</i> spp, <i>Staphylococcus aureus</i> , <i>Staphylococcus</i> spp, <i>Streptococcus</i> spp	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
16	Internal organs, joints, lungs from pigs, rabbits and ruminants	Detection of <i>Haemophilus</i> spp, <i>Bordetella</i> spp, <i>Erysipelothrix</i> spp	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	

17	Internal organs	Detection of <i>Mycobacterium</i> spp	Microscopy	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
18	Cultures	Antimicrobial resistance	Antimicrobial Susceptibility–Agar Disk Diffusion Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
19	Milk and udder secretions	Detection of <i>Escherichia coli</i> , <i>Klebsiella</i> spp, <i>Enterobacter</i> spp, <i>Proteus</i> spp and other enterobacteriaceae	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
20	Milk and udder secretions	Detection of <i>Staphylococcus aureus</i> , coagulase negative staphylococci <i>Streptococcus agalactiae</i> , <i>Streptococcus uberis</i> , <i>Streptococcus dysgalactiae</i> , <i>Streptococcus</i> spp, <i>Enterococcus</i> spp	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
21	Milk and udder secretions	Detection of <i>Pasteurella</i> spp, <i>Pseudomonas</i> spp, <i>Corynebacterium</i> spp, <i>Trueperella pyogenes</i>	Culture, microscopy, biochemical testing	Clinical Veterinary Microbiology 2nd ed Mosby 2013	
22	Milk and udder secretions, internal organs	Detection of yeasts - moulds	Culture, microscopy	Clinical Veterinary Microbiology 2nd ed Mosby 2013	

## **B.5 DVCTh/DEPARTMENT: VETERINARY LABORATORY OF IOANNINA**

Chr. Katsari 2, PC 452 21, Ioannina  
tel: +30 26510 27396, fax: +30 26510 33541  
[keioan1@otenet.gr](mailto:keioan1@otenet.gr)

### **NATIONAL REFERENCE LABORATORY**

Campylobacter

#### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)

Zoonoses & zoonotic agents (Salmonella)

Bovine leucosis

Bovine Spongiform Encephalopathy & Small ruminants Transmissible Spongiform Encephalopathies

Animal by-products

Antimicrobial resistance

Residues of substance group B1 of Annex I of Directive 96/23/EC

Microbiological criteria for foodstuffs

Milk and milk products (criteria for raw milk)

#### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Food and animal feeding stuff	Detection of <i>Salmonella spp</i> (except <i>S. typhi</i> , <i>S. paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
2	Food and animal feeding stuff	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
3	Food and animal feeding stuff	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3

4	Food and animal feeding stuff	Enumeration of coagulase positive staphylococci	ISO 6888-2:1999	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
5	Food and animal feeding stuff	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i>	ISO 16649-2:2001	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
6	Food and animal feeding stuff	Enumeration of the total aerobic microorganisms at 30 oC	ISO 4833-1 :2013	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
7	Food and animal feeding stuff	Detection and enumeration of enterobacteriaceae	ISO 21528-2:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
8	Animal faeces and samples from the primary production stage	Detection of <i>Salmonella spp</i> (except <i>S. typhi</i> , <i>S. paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
9	Animal and poultry tissues	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	Method OE504A-28 based on the method "Screening Test for Antibiotic Residues –STAR Protocol" of the NRL-Residues	Reg657/2002, Reg37/2010, GUIDELINES FOR THE VALIDATION OF SCREENING METHODS (20-1-2010)	ESYD488-3
10	Digestion residues from biogas plants – compost from composting plants	Detection of <i>Salmonella spp</i> (except <i>S. typhi</i> , <i>S. paratyphi</i> )	Based on ISO 6579-1:2017 for the purpose of Commission Regulation (EC) No 1069/2009 and implementing Regulation (EU) No 142/2011	Reg1069/2011, Reg142/2011	ESYD488-3
11	Digestion residues from biogas plants – compost from composting plants	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i>	Based on ISO 16649-2:2001 for the purpose of Commission Regulation (EC) No 1069/2009 and implementing Regulation (EU) No 142/2011	Reg1069/2011, Reg142/2011	ESYD488-3
12	Nervous tissue (obex) of bovine, ovine and caprine origin	Detection of the protein PrP <sup>Res</sup>	Immuno-enzymatic technique (TeSeE BIO- RAD rapid test) according to the Commission	Reg999/2001	ESYD488-3
13	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC, Reg535/2002	ESYD488-3

14	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC, Reg535/2002	ESYD488-3
15	Blood serum samples of bovine	Detection of antibodies against Bovine Leucosis Virus	ELISA Test according to the Commission Directive 64/432/EC, the Decision 2009/976/EE and the OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012	Dir64/432/EEC, Dec2009/976/EU	ESYD488-3
16	Milk samples of domestic or wild ruminants	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC, Reg535/2002	ESYD488-3
17	Food, animal feeding stuff and broiler caecal material	Detection of <i>Campylobacter spp</i>	ISO 10272-1:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013	ESYD488-3
18	Food, animal feeding stuff and broiler caecal material	Enumeration of <i>Campylobacter spp</i>	ISO 10272-2:2017	Reg2073/2005, Reg1441/2007, Reg365/2010, Reg1086/2011, Reg209/2013, Reg 1495/2017	ESYD488-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
19	Bovine blood serum sample	Detection of antibodies against Bovine Leucosis Virus	Agar gel immunodiffusion test	Dir64/432/EOK, Dec2009/976/EU, OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012	
20	caecal samples	Isolation of ESBL enzymes, AmpC and carbapenemases-producing E. Coli strains	Protocol of DTU Food Laboratory-European Reference Laboratory for Antimicrobial Resistance	Desicion 2013/652/EU	
21	fresh meat	Isolation of ESBL enzymes, AmpC and carbapenemases-producing E. Coli strains	Protocol of DTU Food Laboratory-European Reference Laboratory for Antimicrobial Resistance	Desicion 2013/652/EU,	

22	Bovine milk sample	Detection of antibodies against Bovine Leucosis Virus	ELISA Test	Dir64/432/EOK, Dec2009/976/EU, OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012	
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## **B.6 DVCTh/DEPARTMENT: VETERINARY LABORATORY OF KAVALA**

Stavros Amygdaleona, PC: 640 12, Kavala  
tel: +30 2510 391865, fax: +30 2510 392301  
[ktekav@yahoo.gr](mailto:ktekav@yahoo.gr)

### **NATIONAL REFERENCE LABORATORY**

Honeybee health

#### OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Brucellosis)

Bovine leucosis

Microbiological criteria for foodstuffs

Bacteriological contamination of bivalve molluscs

Residues of substance group B1 of Annex I of Directive 96/23/EC

#### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Bivalve molluscs	Enumeration of $\beta$ -glucuronidase positive <i>E. Coli</i>	ISO/TS 16649-3:2015 Most probable number, using 5-bromo-4-chloro-3-indolyl- $\beta$ -D-glucuronide	Reg2073/2005, Reg1441/2007	ESYD529-3
2	Food and Animal Feeding stuffs	Detection of <i>Salmonella spp.</i> Horizontal method for the detection of non-typhi, non-paratyphi <i>Salmonella spp.</i>	ISO 6579:1:2017	Reg2073/2005, Reg1441/2007	ESYD529-3
3	Food and Animal Feeding stuffs	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005, Reg1441/2007	ESYD529-3
4	Food and Animal Feeding stuffs and environmental samples in the area of food production and food handling	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2:2017	Reg2073/2005, Reg1441/2007	ESYD529-3



5	Animal tissues and milk	Detection of antimicrobial agents (quinolones, cephalosporins, penicillins, macrolides, tetracyclines, aminoglycosides, sulfonamides)	Method MD-07 based on "Screening Test for Antibiotic Residues (STAR Protocol" of the LVM/RMV/BIO/PTC/ 15.AN/17-10-2006 Protocol of Community Reference Laboratory of AFFSA-FOUGERES 6 <sup>th</sup> Edition)	Reg657/2002, Reg37/2010, GUIDELINES FOR THE VALIDATION OF SCREENING METHODS (20-1-2010	ESYD529-3
6	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC	ESYD529-3
7	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC	ESYD529-3
8	Forager bees <i>Apis mellifera</i>	1. Identification and quantification of Nosema spp. (spores	Nosemosis diagnosis: Identification and quantification of Nosema spp. By microscopic examination ANSES/SOP/ANA-I1.MOA.0900 - Version 01.), του *ANSES, Sophia Antipolis (2017)	MD 4424/137557/11.11.2013	ESYD529-3
9	<i>Apis mellifera</i> honey bees	Detection and quantification of Varroosis ( <i>Varroa destructor</i>	OIE Terrestrial Manual2008/Chapter 2.2.7 VARROOSIS OF HONEY BEES (INFESTATION OF HONEY BEES WITH VARROA)	OIE Terrestrial Animal Health Code , Article 9.6	ESYD529-3
10	Bovine blood serum and milk sample	Detection of antibodies against <i>Brucella abortus</i> , <i>B. melitensis</i> , <i>B. suis</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Dir64/432/EEC	ESYD529-3
11	Bovine blood serum and milk sample	Detection of antibodies against Bovine Leucosis Virus	ELISA Test	Dir64/432/EEC, Dec2009/976/EE	ESYD529-3

12	Honey bees, brood	Detection of <i>Paenibacillus larvae</i> (American Foul Brood, AFB)	Microscopy / OIE <i>Terrestrial Manual</i> 2016 Chapter 3.2.2	OIE Terrestrial Animal Health Code , Article 9.2.	ESYD529-3
13	Food and Animal Feeding stuffs and environmental samples in the area of food production and food handling	Enumeration of Enterobacteriaceae	ISO 21528-2:2017	Reg 2073/2005	ESYD529-3

#### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
14	<i>Apis mellifera</i> honey bees, brood	Detection of <i>Tropilaelaps</i> spp. (tropilaelaps infestation of bees)	Macroscopic & microscopic examination and identification/ OIE <i>Terrestrial Manual</i> 2017 2.2.6	OIE Terrestrial Animal Health Code, Article 9.5.	
15	<i>Apis mellifera</i> honey bees	Detection of <i>Malpighamoeba mellifica</i>	Microscopic examination of malpighian tubules/OIE Terrestrial Manual 2013 2.2.4		
16	Honey bees, brood	Detection of <i>Melissococcus plutonius</i> (European Foul Brood, EFB)	Culture-microscopy / OIE <i>Terrestrial Manual</i> 2016 Chapter 2.2.3	OIE Terrestrial Animal Health Code , Article 9.3.	
17	Honey bees, brood	Detection of <i>Paenibacillus larvae</i> (American Foul Brood, AFB)	Culture / OIE <i>Terrestrial Manual</i> 2016 Chapter 2.2.2	OIE Terrestrial Animal Health Code , Article 9.2.	
18	Brood	Detection of <i>Ascosphaera apis</i>	Macroscopic observation & microscopy (Beebook Vollume II, coloss)		
19	Brood	Detection of <i>Aspergillus flavus</i>	Macroscopic observation & microscopy (Beebook Vollume II, coloss)		
20	Honey bees, brood, beehives	Small Hive Beetle infestation	Macroscopic observation & stereoscopy - OIE <i>Terrestrial Manual</i> 2017 2.2.5	OIE Terrestrial Animal Health Code , Article 9.4.	
21	Adult wasps	Detection of <i>Vespa velutina</i> and other Vespidae sp.	Macroscopic observation & stereoscopy (EURL, method)		
22	Adults, larvae	<i>Detection of Galleria mellonella and Achroia grisella ( Greater and Lesser max moths )</i>	Macroscopic observation & stereoscopy (BeeBook Vollume II, Coloss)		

23	Bees of <i>Apis mellifera</i>	<i>Detection of Acarapis woodi mites (Acarapisosis)</i>	Microscopic observation & identification OIE Terrestrial Manual 2008 2.2.1.	OIE Terrestrial Animal Health Code, Article 9.1.	
24	Food and Animal Feeding stuffs	Enumeration of coagulase positive staphylococci	ISO 6888-2:1999	Reg 2073/2005	
25	Food and Animal Feeding stuffs	Enumeration of $\beta$ -glucuronidase positive <i>Escherichia coli</i>	ISO 16649-2:2001	Reg 2073/2005	
26	Food and Animal Feeding stuffs	Enumeration of the total aerobic microorganisms at 30 °C	ISO 4833-1:2013	Reg 2073/2005	

## **B.7 DVCTh/DEPARTMENT: VETERINARY LABORATORY OF SERRES**

Terma Omonoias, PC 621 10, Serres

tel: +30 23210 35411, fax: +30 23210 35410

[vetlabs@otenet.gr](mailto:vetlabs@otenet.gr)

### **NATIONAL REFERENCE LABORATORY**

Residues of substance groups A1, A3, A4, A6 (dapsone), B2f (carbadox, olaquinox), B3a of Annex I of Directive 96/23/EC

#### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Bovine urine	Determination of anabolic steroids: 17 $\alpha$ -trenbolone, methyltestosterone	Internal method OMT.001 by liquid chromatography-tandem mass spectrometry. (LC-MS/MS) based on the method of the Eur. Community Reference lab (RIVM, Bilthoven, The Netherlands)	Dec657/2002	ESYD 482-3
2	Bovine urine	Determination of anabolic steroids: diethylstilbestrol, dienestrol, hexestrol, $\beta$ -estradiol, ethynylestradiol, $\alpha$ -zearalanol, $\beta$ -zearalanol, stanozolol, 16 $\beta$ -hydroxystanozolol, $\alpha$ -nortestosterone	Internal method OMT.003 by liquid chromatography-tandem mass spectrometry. (LC-MS/MS) based on the method of the Eur. Community Reference lab (RIVM, Bilthoven, The Netherlands)	Dec657/2002	ESYD 482-3
3	Bovine muscle tissue	Determination of anabolic steroids: 17 $\beta$ -trenbolone, methyltestosterone	Internal method OMT 002 by liquid chromatography-tandem mass spectrometry. (LC-MS/MS) based on the method of the Eur. Community Reference lab (RIVM, Bilthoven, The Netherlands)	Dec657/2002	ESYD 482-3
4	Fat	Determination of organochlorine pesticides: cis-chlordane, trans-chlordane, aldrin, dieldrin	Internal method OMT 004 by gas chromatography-tandem mass spectrometry. (GC-MS/MS) based on the EPA methods of pesticides	Dec657/2002	ESYD 482-3

NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
5	Caprine,Ovine and porcine urine	Determination of 17 $\alpha$ -trenbolone, methyltestosterone, diethylstilbestrol, dienestrol, hexestrol, $\beta$ -estradiol, ethynylestradiol, stanozolol, 16 $\beta$ -OH-hydroxystanozolol, $\alpha$ -nortestosterone, $\alpha$ -boldenone, $\beta$ -boldenone, $\beta$ -testosterone, $\beta$ -nortestosterone	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
6	Bovine urine	Determination of $\alpha$ -zearalenol, $\beta$ -zearalenol, zearalenone, $\alpha$ -boldenone, $\beta$ -boldenone, $\beta$ -testosterone, $\beta$ -nortestosterone	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
7	Muscle tissue of caprines,sheep,fisheries, poultry, rabbits, porcines, game animals	Determination of 17 $\beta$ -trenbolone, methyltestosterone	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
8	Muscle tissue of fisheries, bovines, ovines, caprines, porcines, poultry, rabbits, wild and game animals	Determination of diethylstilbestrol zearalenone, $\alpha$ - zearalanol (zeranol), $\alpha$ - zearalenol, $\beta$ -zearalanol (taleranol), $\beta$ - zearalenol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
9	Blood samples from bovines, ovines, caprines, avians, porcines,rabbits	Determination of lactones: $\alpha$ -zearalanol, $\beta$ -zearalanol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
10	Liver and muscle tissue (fisheries, bovines, ovines,porcine caprines, poultry, rabbits, wild and game animals)	Determination of corticosteroids: dexamethasone, flumethasone, triamcinolone acetonide	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
11	Fat	Determination of gestagens: medroxyprogesterone acetate, megestrol acetate, melengestrol acetate, chlormadinone acetate	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
12	Blood samples from bovines, ovines, caprines, avians, porcines	Determination of ethynylestradiol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated

13	Muscle tissue of fisheries, bovines, ovines, caprines, poultry, rabbits, porcines, wild and game animals	Determination of ethynylestradiol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
14	Blood samples from bovines, ovines, caprines, avians, porcines	Determination of methyltestosterone, $\alpha$ -trenbolone, $\beta$ -trenbolone, $\alpha$ -boldenone, $\beta$ -boldenone, $\alpha$ -nortestosterone, $\beta$ -nortestosterone, $\alpha$ -estradiol, $\beta$ -estradiol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
15	Caprine, ovine and porcine urine	Determination of lactones: zearalenone, $\alpha$ -zearalenol, $\beta$ -zearalenol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
16	Muscle tissue of fisheries, bovines, ovines, caprines, poultry, rabbits, porcines, wild and game animals	Determination of $\beta$ -estradiol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
17	Fat	Determination of HCB, Heptachlor, Endosulfan, Endrin, p,p' DDE, p,p' DDD- o,p' DDT	Gas chromatography-tandem mass spectrometry (GC-MS/MS)	Dec657/2002	Validated
18	Fat	Determination of PCB_28, PCB_52, PCB_101, PCB_118, PCB_180	Gas chromatography-tandem mass spectrometry (GC-MS/MS)	Dec657/2002	Validated
19	Muscle tissue of bovines, ovines, caprines, poultry, rabbits, porcines, wild and game animals	Determination of carbadox and metabolites CBX carbadox, QCA quinoxaline-2-carboxylic acid, mQCA methyl-3-quinoxaline-2-carboxylic acid	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
20	Muscle tissue of bovines, ovines, caprines, poultry, rabbits, porcines, wild and game animals	Determination of dapsone	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
21	Milk from bovines, ovines, caprines	Determination of dapsone	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Dec657/2002	Validated
22	Muscle tissue of fisheries, bovines, ovines, caprines, poultry, rabbits, porcines, wild and game animals	Determination of hexestrol, dienestrol	Liquid chromatography-tandem mass spectrometry (LC-MS/MS)		

23	Milk from bovines, ovines, caprines	Determination of $\alpha$ -HCH, HCB, Lindane, Heptachlor, Heptachlor epoxide, aldrin, $\alpha$ -Endosulfan, $\beta$ -Endosulfan, cis-Chlordane, trans-Chlordane, p,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDT	Gas chromatography-tandem mass spectrometry (GC-MS/MS)	SANTE/11813/2017	Validated
24	Live bivalve molluscs (mussels)	Determination of polychlorinated biphenyls	Gas chromatography-tandem mass spectrometry (GC-MS/MS)	SANTE/11813/2017	Validated
25	Fat	Determination of: $\alpha$ -HCH, $\beta$ -HCH, Lindane, Heptachlor epoxide, $\beta$ -Endosulfan, p,p'-DDT	Gas chromatography-tandem mass spectrometry (GC-MS/MS)		
26	Fat	Determination of Polychlorinated biphenyls: PCB138, PCB153	Gas chromatography-tandem mass spectrometry (GC-MS/MS)		
27	Honey, eggs, fisheries	Determination of Polychlorinated biphenyls: PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180	Gas chromatography-tandem mass spectrometry (GC-MS/MS)		
28	Honey, eggs, fisheries	Determination of: $\alpha$ -HCH, HCB, Lindane, $\beta$ -HCH, Heptachlor, Heptachlor epoxide, Aldrin, Dieldrin, Endrin, $\alpha$ -Endosulfan, $\beta$ -Endosulfan, cis-Chlordane, trans-Chlordane, p,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDT	Gas chromatography-tandem mass spectrometry (GC-MS/MS)		
29	Milk	Determination of: PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180	Gas chromatography-tandem mass spectrometry (GC-MS/MS)		
30	Blood smears of livestock	Detection of blood parasites Babesia spp. Anaplasma spp.	Microscopic examination of blood stained with Giemsa-May Grunwald stain	O.I.E. Terrestrial Manual	
31	Faecal smears of livestock, poultry, game birds and companion animals	Detection of <i>Cryptosporidium</i> spp oocysts	Acid-fast Ziehl-Neelsen stain	O.I.E. Terrestrial Manual (May 2016) Cryptosporidiosis (Chapter 2.9.4.)	
32	Sections of small/large intestine & mesenteric lymph nodes - Faeces	Detection of <i>Mycobacterium paratuberculosis</i>	Ziehl-Neelsen stain, microscopy	OIE Terrestrial Manual, 2017 Chapter 2.1.15	

33	affected tissues, internal organs,milk,	Microbiological searching for bacterial pathogens Pasteurella multocida/Mannheimia haemolytica, Staphylococcus spp., Streptococcus spp., Pseudomonas spp., Escherichia coli, Klebsiella spp., Enterobacter spp.	Culture, isolation, identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
34	small ruminans milk	Contagious agalactia in small ruminants (detection of <i>Mycoblasma agalactiae</i> )	Culture, stereoscopy, isolation, identification	OIE Terrestrial Manual 2013 Chapter 2.7.4.	
35	Faeces	Detection of oocysts in parasitic infections	Teleman sedimentation method		
36	Lung tissue,milk	Detection of Mycoplasma spp	Culture, microscopy	OIE Terrestrial Manual 2013 Chapter 2.7.4.	
37	Cultures	Antibiograms	Antimicrobial Susceptibility–Agar Disk Diffusion Test according to the valid editions of CLSI:M2, CLSI:M100, Eucast	CLSI M2 M100 EUCAST	
38	<i>Apis mellifera</i> honey bees and brood	<i>Varroa destructor</i> infestation	Macroscopic & microscopic examination and characterization / OIE <i>Terrestrial Manual</i> 2014 2.2.7	OIE Terrestrial Manual 2008 Chapter 2.2.7.	
39	<i>Apis mellifera</i> honey bees	Detection of Nosema spp. (spores) (qualitative determination)	Microscopic examination and detection of spores	OIE Terrestrial Manual 2013 Chapter 2.2.4.	
40	<i>Apis mellifera</i> honey bees	Acarapiosis	Macroscopic & microscopic examination and characterization	OIE Terrestrial Manual 2014 Chapter 2.2.1.	
41	Honey bees, brood	Detection of <i>Melissococcus plutonius</i> (EFB)	Culture-microscopy	OIE Terrestrial Manual 2016 Chapter 2.2.3.	
42	Honey bees, brood	Detection of <i>Paenibacillus larvae</i> (AFB)	Culture-microscopy / OIE <i>Terrestrial</i>	O.I.E. Terrestrial Manual 2014 Chapter 2.2.2	
43	Brood	Detection of <i>Ascosphaera apis</i>	Macroscopic observation & microscopy	Beebook, Coloss	
44	Brood	Detection of <i>Aspergillus flavus</i>	Macroscopic observation & microscopy	Beebook, Coloss	
45	Adults, larvae	<i>Detection of Galleria mellonella</i> , <i>Achroia grisella</i>	Macroscopic observation & stereoscopy	Beebook, Coloss	



## **B.8 DVCTh/DEPARTMENT: VETERINARY LABORATORY OF LARISSA**

6<sup>th</sup> km of Larissa-Trikala highway, PC 411 10, Larissa

tel:+30 2410 617980, fax: +30 2410 617982

[vetlab@otenet.gr](mailto:vetlab@otenet.gr)

### **NATIONAL REFERENCE LABORATORY**

Zoonoses & zoonotic agents (Brucelloses)

Bovine Spongiform Encephalopathy & Small ruminants Transmissible Spongiform Encephalopathies

Milk and milk products (criteria for raw milk)

### **OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:**

Microbiological criteria for foodstuffs

Bovine leucosis

Paratuberculosis

### **ACCREDITED TESTS PERFORMED**

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Nervous tissue (obex) of bovine, ovine and caprine origin	Detection of the protein PrP <sup>Res</sup>	Immuno-enzymatic technique ELISA (TeSeE BIO- RAD) according to the Commission Regulation 999/2001/EC	Reg999/2001	ESYD 834-2
2	Nervous tissue (obex) of bovine, ovine and caprine origin	Detection of the protein PrP <sup>Res</sup>	Immunoblot test (Confirmatory Western blot BIO-RAD) according to the Commission Regulation 999/2001/EC	Reg999/2001	ESYD 834-2

3	Nervous tissue (obex) of ovine and caprine origin	Discriminatory test for strain typing of transmissible spongiform encephalopathies in small ruminants	Discriminatory test (Discriminatory CEA METHOD BIO-RAD) according to the Commission Regulation 36/2005/EC and the «Discriminatory Testing Handbook of AHVLA EU community reference laboratory for TSE as amended	Reg36/2005	ESYD 834-2
4	Ovine nervous tissue, Ovine blood samples	Genotyping analysis of polymorphisms in the PrP protein gene codons 136, 141, 154 and 171 to determine resistance to Scrapie Disease.	Multiplex RT-PCR Melting Curve Genotyping using specific fluorescent probes	Reg999/2001	ESYD 834-2
5	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Rose Bengal Test (R.B.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	ESYD 834-2
6	Blood serum samples of domestic or wild ruminants, equine, swine, camelids, carnivores and human origin	Detection of antibodies against <i>Brucella abortus/ melitensis/ suis</i>	Complement Fixation Test (C.F.T.) according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Reg535/2002	ESYD 834-2
7	Milk	Detection of <i>Campylobacter</i> spp.	ISO 10272-1:2017	Reg854/2004	ESYD 641-3
8	Milk and milk products, meat and meat products	Detection of <i>Salmonella</i> spp. (except <i>S. Typhi</i> <i>S. Paratyphi</i> )	ISO 6579-1:2017	Reg2073/2005	ESYD 641-3
9	Milk and milk products, meat and meat products	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1:2017	Reg2073/2005	ESYD 641-3
10	Raw cow milk	Enumeration of somatic cells	Microscopic method (Reference method) ISO 13366-1/IDF 148-1:2008	Reg853/2004	ESYD 641-3
11	Milk	Enumeration of the total aerobic microorganisms at 30oC	ISO 4833-1:2013	Reg853/2004	ESYD 641-3

## NON-ACCREDITED TESTS PERFORMED

	Tested materials/ products	Types of test/ Properties to be measured	Applied Standards/ Techniques to be used	Documentation	Comments
12	Bovine milk samples	Antibody detection against <i>Brucella spp.</i>	ELISA Test according to the Commission Regulation 535/2002/EC amending Annex C of the Directive 64/432/EEC and the Decision 2000/330/EC	Kav535/2003	
13	Bovine blood serum samples	Antibody detection against <i>Brucella spp.</i>	Indirect ELISA	Kav535/2003	
14	Bovine blood serum, milk	Antibody detection against Enzootic Bovine Leucosis	BLV gp51 Ab Test, Screening format, Kit Svanova & BLV gp51 Ab Test, Confirmation format, Kit Svanova.	Direct.64/432/EOK, Dis. 2009/976/EE	
15	Control of REV-1 & RB-51 Vaccines	Detection of <i>Brucella melitensis</i> REV-1strain & <i>Brucella Abortus</i> RB-51 strain	Culture Isolation Identification Enumeration.	Manual of diagnostic Test and Vaccines for TERRESTRIAL Animals 2013 Chapter 2.4.3 and 2.7.2 Techniques for Brucellosis laboratory G.G. ALTON/L.M.JONES R.D.ANGUS/J.M.VERGER.	
16	Aborted tissue of domestic animals	Detection of <i>Brucella spp.</i> , <i>Cambylobacter spp.</i> , <i>Salmonella spp.</i>	Culture Isolation Identification	Manual of diagnostic Test and Vaccines for TERRESTRIAL Animals 2013 Chapter 2.4.3 and 2.7.2 Techniques for Brucellosis laboratory G.G. ALTON/L.M.JONES R.D.ANGUS/J.M.VERGER. EN ISO 10272-1:2017 EN ISO 6579:2002	
17	Blood smears of domestic animals	Detection of all parasites	Microscopic examination - Giemsa stain-May Grunwald stain	O.I.E. Terrestrial Manual (Protocol and reagents depending on the parasite)	
18	Faecal smears of domestic animals	Detection <i>Cryptosporidium spp</i> oocysts	Microscopic examination - Modified Ziehl-Neelsen	OIE Terrestrial Manual 2016 Chapter 2.9.4.	
19	Lymphnodes and intestinal smears of domestic animals	Detection of <i>Mycobacterium Avium subsp. Paratuberculosis</i>	Microscopic examination - Modified Ziehl-Neelsen	OIE Terrestrial Manual 2014 Chapter 2.1.15.	

20	Animal Tissue and milk from domestic animals	Isolation of <i>Pasteurella multocida</i> / <i>Mannheimia haemolytica</i> , <i>Staphylococcus</i> spp., <i>Streptococcus</i> spp., <i>Pseudomonas</i> spp., <i>Escherichia coli</i> , <i>Klebsiella</i> spp., <i>Enterobacter</i> spp. <i>Salmonella</i> spp, <i>Clostridium</i> Spp	Culture, Isolation Identification	P.J.Quin, M.E. Carter,B.K. Markey, G.R. Carter, Clinical Veterinary Microbiology, WOLFE, 1994.	
21	Milk, Lung tissue	Detection of <i>Mycoplasma</i> spp.	Culture, Stereoscapy, Identification	OIE Terrestrial Manual 2013 Chapter 2.7.4.	
22	Culture of isolated bacteria	Disk-Antibiogram	(CLSI M2 M100 EUCAST).	CLSI M2 M100 EUCAST	
23	Food	Enumeration of the total aerobic microorganisms at 30oC	ISO4883-1:2013	Kav2073/2005	
24	Food	Enumeration of coagulase positive staphylococci	ISO 6888-1:1999	Kav2073/2005	
25	Food	Enumeration of $\beta$ -glucoronidase positive <i>Escherichia coli</i>	ISO 16649-2:2001	Kav2073/2005	
26	Poultry meat	Water content	Determination of nitrogen content (ISO 937:1978) Determination of water content (ISO 1442:1997)	Reg1538/1991	
27	Food	Enumeration of <i>Campylobacter</i> spp.	ISO 10272-2:2017	Kav2073/2005	
28	Food	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2:2017	Kav2073/2005	
29	Bees of <i>Apis mellifera</i>	Detection of <i>Nosema</i> spp. (spores) (qualitative determination) and their count (quantification)	Microscopic examination, spore count on hemocytometer and determination of mean spore number per bee	OIE Terrestrial Manual ( 2013) Nosemiasis of honey bees (Chapter2.2.4)	
30	Bees of <i>Apis mellifera</i>	Detection of <i>Varroa destructor</i> (Varroosis) mites and their counting	Macroscopic & microscopic examination and identification	OIE <i>Terrestrial Manual (May 2008)</i> Varroosis of honey bees (Chapter 2.2.7.) Terrestrial Animal Health Code, Article 9.6	
31	Honey bees, larva	Detection of <i>Paenibacillus larvae</i> (American Foulbrood, AFB)	Microscopic examination of staining smears	O.I.E. Terrestrial Manual (May 2016) American Foolbrood of honey bees (Infection with <i>Paenibacillus larvae</i> ) (Chapter 2.2.2.)	

## B.9 DVCTh/BIOLOGICAL PRODUCTS, DIAGNOSTIC PATHOLOGY & PARASITOLOGY OFFICE

80, 26th Oktovriou Street, 546 27 Thessaloniki

tel:+30 210 566063, fax:+30 210 552023

[kkith@otenet.gr](mailto:kkith@otenet.gr)

OFFICIAL LABORATORY/LABORATORY DESIGNATED TO CARRY OUT ANALYSES WITHIN THE FIELD OF:

Zoonoses & zoonotic agents (Bovine Tuberculosis)

### ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Certificate number</b>
1	Bovine tissues (Lymph nodes: retropharyngeal, bronchial, mediastinal and portal. Lung, liver, spleen and the surfaces of body cavities-diaphragm)	Histological method for tubercle's detection	Haematoxyline - Eosin staining for tubercle's detection	Council Directive 64/432/EEC, PD 308/2000, MD 30/3430/14.01.15	ESYD 844-2

### NON-ACCREDITED TESTS PERFORMED

	<b>Tested materials/ products</b>	<b>Types of test/ Properties to be measured</b>	<b>Applied Standards/ Techniques to be used</b>	<b>Documentation</b>	<b>Comments</b>
2	Tissues of goats ,sheep and pets	Histological method for tubercle's detection	Haematoxyline - Eosin staining for tubercle's detection	Council Directive 64/432/EEC, PD 308/2000, MD 30/3430/14.01.15, Wangoo et al (2005) J.Comp.Path.,133,223-234	Validated
3	Lungs of goats and sheep	Histological method for detection of maedi pneumonia	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
4	Lungs of goats and sheep	Histological method for detection of parasites	Haematoxyline - Eosin staining for detection of parasitic bronchopneumonia	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	

5	Lungs of goats and sheep	Histological method for detection of Mannheimia spp pneumonia	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
6	Lungs and pleura of goats	Histological method for detection of infectious pleuropneumonia	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
7	Brain of goats and sheep	Histological method for visna -maedi detection	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
8	Brain of goats and sheep	Histological method for Listeria detection	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
9	Brain of goats and sheep	Histological method for the detection of embolic granulomatous meningoencephalitis	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
10	Brain of goats and sheep	Histological method for the detection of parasitic encephalitis	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
11	Brain of goats and sheep	Histological method for the detection of VitA deficiency	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
12	Mucosa of nose cavities of sheep	Histological method for the detection of endemic intramucosal neoplasia of the nose	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
13	Lips skin of the sheep	Histological method for the detection of contagious ecthyma	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
14	Skin of goats and sheep	Histological method for the detection of sarcoptic, psoroptic and chorioptic scabies	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
15	Mammary gland of sheep	Histological method for the detection of mixed infection by Maedi-Corynebacterium spp	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	

16	Mammary gland of cow	Histological method for the detection of gangrenous mastitis	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
17	Tissues of productive animals	Histological method for the detection of neoplasias	Haematoxyline - Eosin staining	Tumors in Domestic Animals 4th ed.Meuten Editor Blackwell ,2002	
18	Tissues of rabbit	Histological method for the detection of myxomatosis	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
19	Meat of slaughtered bovine	Histological method for the detection of eosinophilic myositis	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	
20	Poultry Liver	Histological method for the detection of hepatitis with inclusion bodies (adenovirus) and mycotoxicosis	Haematoxyline - Eosin staining	Diseases of Poultry 10th Ed.B.W.Calnek,Mosby-Wolfe,1997	
21	Tissues of laying chickens	Histological method for the detection of Marek disease	Haematoxyline - Eosin staining	Diseases of Poultry 10th Ed.B.W.Calnek,Mosby-Wolfe,1997	
22	Tissues of laboratory animals (white mice)	Istological examination within the framework of the European and Greek legislation	Haematoxyline - Eosin staining	PD56/2013, Reg15/2011, Digestive System, Monographs In Pathology of Laboratory Animals,Ed. T.C. Jones ,U.Mohr, R.D.Hunt, Springer Verlag,1985	
23	Tissues of laboratory animals (white mice)	Istological examination for neoplasias	Haematoxyline - Eosin staining	Pathology of Neoplasia and Preneoplasia in Rodents EULEP Color Atlas, Bannash and Gossner,Schattauer,1994	
24	Tissues of bovine, sheep and goat	Histological examination for acid-fast bacilli congregations	Ziehl-Neelsen staining	Council Directive 64/432/EEC, PD 308/2000, Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology,1968.	
25	Mesenteric lymph nodes	Histological examination for the diagnosis of chronic purulent lymphadenitis of bacterial aetiology	Haematoxyline - Eosin staining	Pathology of Domestic Animals, Jubb, Kennedy & Palmer's, Elsevier Saunders, 2007	