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VET



PORTFOLIO

DIAGNOSTIC SERVICES PORTFOLIO

POULTRY



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PATHOLOGY

Item-No.	Pathology
19240	Pathological-anatomical reporting
10699	Targeted sampling for bacteriology and/or PCR (per bird, no pathological-anatomical report)
10701	Processing fee for native sample material (excl. Salmonella spp. sample material)
10702	Parasitological investigation poultry (mucosal scraping: microscopic examination)
10703	Parasitological investigation poultry (feces: flotation/sedimentation & microscopic examination)
10318	Parasitologic investigation poultry (feces: coccidia oocyst counting acc. to McMaster)
10358	Patho-histological examination (per tissue sample)

Item-No.	Material for Sampling ¹
27960	AniCard with 10 spots (per card)
19930	Paper strips (ELISA) (per 100 strips)
23250	MALDI-TOF MS target (single use)
28550	Sampling beaker sterile (per 5 beaker)
29650	Sampling beaker with formalin for pathohistology (per beaker)
28560	Reaction tube 1,5 ml (per 500 tubes)
28520	Tube 13 ml and plug (per 500 tubes)
28580	Salmonella-sampling swab (with neutralizer solution; per 50 swabs)
28590	Boot/ sock swab (per 100 swabs)
28600	Disposable locking bags for samples such as swabs/ sock swabs (per 100 bags)
19910	Swab (wooden) without transport medium (per 100 swabs)
12810	Fine swab (aluminium) without transport medium (per 100 swabs)
15160	Fine swab (aluminium) with transport medium (per 100 swabs)
26780	Swab with preservative agent (Mycoplasma or virus culture) (per 50 swabs)
10432	Sampling beaker with UTM-transport medium (per beaker, 10 ml)
27460	Swab with preservative agent (Brachyspira culture) (per 50 swabs)
10417	NGS Sampling Kit (comprises 1 set for total 10 individual samples)
10384	NGS Sampling Kit (comprises 10 sets for total 100 individual samples)
10831	AniCard NGS with 1 Spot (FTA® card technology) (per card)

Item-No.	Sample Collection Service ¹
26870	Sample collection (small box 5 litre)*
26880	Sample collection (big box 30 litre)*

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SEROLOGY

Item-No.	ELISA
	Virus
20520	Avian Encephalomyelitis Virus (AEV)
11310	Avian Metapneumovirus (aMPV / ART / TRT / SHS (subtypes A & B); chicken, turkey)
10231	Egg Drop Syndrome-76 Virus (EDS-76 / DuAdV; chicken)
19110	Fowl Adenovirus (FAdV; chicken)
12930	Gumboro (IBDV) (incl. vaccination date prediction on request; chicken)
10386	Gumboro (IBD VP2; in case of vaccination with recombinant IBD-vaccines; chicken)
19830	Chicken Astrovirus (CAstV; cave: group B only; chicken)
13280	Infectious Bronchitis Virus (IBV / avian Coronavirus; chicken)
17390	Infectious Laryngotracheitis Virus (ILTV; chicken)
12830	Influenza Virus Type A (multispecies)
14470	Influenza Virus – H5 specific (chicken, turkey, duck)
14480	Influenza Virus – H7 specific (chicken, turkey, duck)
20530	Chicken Anemia Virus (CAV; chicken)
16470	Newcastle Disease Virus (aPMV-1; chicken, turkey)
15800	Reovirus (ARV; chicken)
	Bacteria
10730	Mycoplasma gallisepticum (MG, Mycoplasma gallisepticum; chicken, turkey)
12660	Mycoplasma meleagridis (MM; Mycoplasma meleagridis; turkey)
10740	Mycoplasma synoviae (MS, Mycoplasma synoviae; chicken, turkey)
10840	Ornithobacterium rhinotracheale (ORT; chicken, turkey)
16580	Pasteurella multocida (chicken, turkey)
15640	Salmonella Group B & D (incl. SE & ST; chicken)
Item-No.	HI – Hemagglutination Inhibition Testing
14520	Egg Drop Syndrome-76 Virus (EDS-76 / DuAdV)
17380	Influenzavirus A H-Type (H1, H3, H5, H6, H7 & H9, further upon request)
15950	Newcastle Disease Virus (aPMV-1)
15970	Avian Paramyxovirus-3 (aPMV-3)
Item-No.	SSA – Serum Slide Agglutination
10780	Mycoplasma gallisepticum (MG, Mycoplasma gallisepticum)
10790	Mycoplasma meleagridis (MM, Mycoplasma meleagridis)
10860	Mycoplasma synoviae (MS, Mycoplasma synoviae)
10800	Salmonella Pullorum – Gallinarum

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MICROBIOLOGY

Item-No.	Cultural Microbiology
	General Bacteriology
10704	Bacteriological examination (per swab)
10705	Bacteriological examination package chicks/poults ² (incl. sampling of liver & yolk sac; 5 birds up to 5 dph)
12750	Biochemical differentiation - API
18400	MALDI-TOF MS (species determination by mass spectrometry bacteria)
24300	MALDI-TOF MS (species determination by mass spectrometry mould)
10590	Sensitivity testing (agar diffusion testing, ADT)
10064	Sensitivity testing (minimum inhibition concentration, MIC)
13780	Contact Plate incl. quantitative analysis
	Specific Bacteriology
23860	Cultural enrichment 3 Brachyspira spp.
23000	Cultural enrichment – Campylobacter spp.
16350	Cultural enrichment – Clostridium spp.
10264	Cultural enrichment – Enterococcus spp.
19690	Cultural enrichment – Mycoplasma spp.
22460	Cultivation Salmonella spp. (acc. ISO 6579)
12720	Cultivation Salmonella spp. 5-fold passaging (in-house method)
18480	Selective cultivation of mould fungi (without species differentiation)
	Phenotyping
13040	Serotyping (slide agglutination) E. coli
13020	Serotyping (agarose gel precipitation) ORT
10096	Serotyping (acc. to Heddleston) Pasteurella multocida
13030	Serotyping (slide agglutination) Riemerella anatipestifer
23010	Salmonella spp. – serovar-typing according to Kauffmann-White scheme
18270	Salmonella Enteritidis Vaccine/Field strain-differentiation (Erythromycin/Rifampicin-Sensitivity testing (LAH) and IDT Salmonella Diagnostics)
18270	Salmonella Typhimurium Vaccine/Field strain-differentiation (Erythromycin/Rifampicin-Sensitivity testing (LAH) and IDT Salmonella Diagnostics)

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MOLECULAR BIOLOGY

Item-No.	PCR – Detection (Scaffolded Package-Pricing ³ see below)
	Virus
20510	Chicken Astrovirus (CAstV, group A & B)
20000	Turkey Astrovirus 1 / 2 (serotype-specific, TAstV-1/-2)
17720	Avian Encephalomyelitis Virus (AEV)
19570	Avian Hepevirus (aHEV/ Avian Hepatitis E virus/ BLSD virus)
17820	Duck / Goose Circovirus (DuCV / GoCV; species-specific)
19630	Turkey Coronavirus (TuCV)
16790	Duck Egg Drop Flavivirus (BYDV / Baiyangdian)
17770	Egg Drop Syndrome-76-Virus (EDS-76 / DuAdV)
16500	Duck Hepatitis A Virus Type 1 (DHAV-1 / DHV-1)
16510	Duck Enteritis Virus (Duck plague, DEV)
23900	Fowlpox Virus (FPV)
17780	Fowl Adenovirus (FAdV) ⁴
18730	Turkey Hemorrhagic Enteritis Virus (TuHEV)
19650	Herpes Virus of Turkeys (GaHV-3, HVT)
16250	Infectious Laryngotracheitis Virus (ILTV)
13960	Infectious Bronchitis Virus (IBV) / Avian Coronavirus (ACoV) screening (incl. IBV & TuCV)
10748	Infectious Bursal Disease Virus (IBDV/ Gumboro-Virus) Screening
12300	Avian Influenzavirus Type A ("Matrix-PCR", AIV)
diverse	Influenzavirus A – detection of H-types 1, 3, 6, 9 and N-types 1, 2, 8 (further on request) per individual parameter
diverse	Influenzavirus A – detection of H-types 5, 7 only in combination: 5+7+9
20290	Chicken Anemia Virus (CAV)
19180	Marek's Disease Virus (MDV, GaHV-1)
12650	Avian Metapneumovirus A & B (serotype-specific, aMPV-A & -B / ART / TRT / SHS)
17220	Avian Metapneumovirus C (serotype-specific; aMPV-C)
10708	Avian Metapneumovirus D (serotype-specific; aMPV-D)
20770	Avian Nephritis Virus 1 & 2 (ANV-1 & -2)
20720	Avian Nephritis Virus 3 (ANV-3)
13830	Newcastle Disease Virus (Avian Paramyxovirus-1, aPMV-1)
17740	Avian Ortho-Reovirus (ARV) ⁴
20010	Muscovy Duck Parvovirus & Goose Parvovirus (MDPV, GPV) Screening-PCR
16970	Turkey Viral Hepatitis (TVH, Picornavirus)

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MOLECULAR BIOLOGY

Item-No. PCR – Detection continued (Scaffolded Package-Pricing³ see below)

Virus

22310	Avian Polyomavirus (GHPV / Hemorrhagic Nephritis and Enteritis Virus of Geese / HNEG)
28500	Chicken Proventricular Necrosis Virus (Transmissible Viral Proventriculitis / CPNV / TVP)
19670	Reticuloendotheliosis Virus (REV)
19770	Duck / Goose Reovirus (DRV / GRV)
17800	Avian Rotavirus A & D (serotype-specific, combination)
10356	Pigeon Rotavirus

Bacteria

14540	Avibacterium paragallinarum (Infectious Coryza)
18870	Bordetella avium
21530	Brachyspira spp.-screening
10709	Brachyspira hyodysenteriae
10711	Brachyspira pilosicoli
10333	Brachyspira intermedia
14020	Chlamydia spp. screening
19680	Chlamydia abortus
19780	Chlamydia avium (doves, psittacidae)
19790	Chlamydia gallinacea
10088	Chlamydia psittaci
14630	Erysipelothrix rhusiopathiae (Erysipelas)
10228	Lawsonia intracellularis
14640	Mollicutes spp. (Mycoplasma, Acheloplasma, Ureaplasma)
10415	Mycoplasma spp.
12450	Mycoplasma gallisepticum (MG, Mycoplasmaoides gallisepticum)
19190	Mycoplasma iowae (MI)
19130	Mycoplasma meleagridis (MM, Mycoplasmaopsis meleagridis)
13050	Mycoplasma synoviae (MS, Mycoplasmaopsis synoviae)
13800	Ornithobacterium rhinotracheale (ORT)
17590	Pasteurella multocida
24370	Pasteurella multocida subsp. septica
13430	Riemerella anatipestifer

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MOLECULAR BIOLOGY

Item-No. PCR – Detection continued (Scaffolded Package-Pricing³ see below)

Bacteria

–	Salmonella spp. (see chapter “PCR following Cultural Enrichment“)
25180	Salmonella Enteritidis (serovar-specific)
10724	Salmonella Infantis (serovar-specific)
10725	Salmonella Paratyphi B (serovar-specific)
10726	Salmonella Typhimurium (serovar-specific)
22540	Staphylococcus aureus

Parasites

27520	Cryptosporidium parvum
15680	Histomonas meleagridis

Item-No. PCR following Cultural Enrichment

–	Combination FAdV & ARV: culture & species-specific PCR
14610	thermophilic Campylobacter spp. (incl. C. coli, C. jejuni, C. lari, C. upsaliensis; excl. C. hepaticus)
10087	Campylobacter hepaticus
10020	Salmonella spp.

Item-No. PCR typing and DIVA⁶

Typing

10086	Campylobacter coli, C. jejuni, C. lari (species-specific)
14550	Clostridium perfringens major & minor toxin genes ⁷
10282	E. coli 15 × APEC (genes coding for virulence factors; incl. F11-antigen)
10749	Infectious Bursal Disease Virus (IBDV/ Gumboro-Virus) typing (genotype-specific A1, A3 & A7)
18700	IBV-variant-specific determination (package of all available variants) ⁸
22290	MDPV/GPV Typing-PCR for differentiation of Goose Parvovirus/Muscovy Duck Parvovirus
20500	Newcastle Disease Virus / aPMV-1 patho-typing-PCR (lentogenic vs. meso- & velogenic)
14680	Pasteurella multocida capsule typing

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MOLECULAR BIOLOGY

Item-No.	PCR typing and DIVA ⁶ continued
	DIVA
28640	Innovax [®] -ND-IBD DIVA-PCR
23820	Marek & Rispens DIVA-PCR (separate detection of non-Rispens and Rispens strain)
14710	MG DIVA-PCR vaccine strain 6/85-like and F-like-strain
23740	MG DIVA-PCR vaccine strain ts-11
19290	MS-H DIVA-PCR (separate detection of MS-H and non-MS-H field strains)
22430	MS-1 DIVA-PCR
17740	Avian Ortho-Reovirus S1133 DIVA-PCR
10182	Duck & Goose Parvovirus DIVA-PCR (Hoekstra)
10727	Poulvac Procerta [®] HVT ND-PCR
19370	SE DIVA-PCR (Salmonella Enteritidis serovar-specific & vaccine strains IDT/CEVA and LAH/ELANCO specific) combined with ST (Salmonella Typhimurium serovar-specific)
24110	SGP DIVA-PCR (serovar-specific differentiation of Salmonella Gallinarum and Pullorum and vaccine strain 9R specific)
29390	Vaxxitek [®] HVT+IBD DIVA-PCR
10101	Vectormune [®] ND DIVA-PCR

Item-No.	PCR Packages ³ (scaffolded rebate system)
10712	PCR package poultry (2 parameters)
10713	PCR package poultry (3 parameters)
10714	PCR package poultry (4 parameters)
10715	PCR package poultry (5 parameters)
10716	PCR package poultry (6 parameters)
10717	PCR package poultry (7 parameters)
10718	PCR package poultry (8 parameters)
10719	PCR package poultry (9 parameters)
10721	PCR package poultry (10 parameters)
10722	PCR package poultry (11 parameters)
10723	PCR package poultry (12 parameters)

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MOLECULAR BIOLOGY

Item-No.	Sequencing (Sanger)
24720	Fowl Adenovirus sequencing for species and serotype determination
29570	Avibacterium paragallinarum for serotype determination
10728	MLST Brachyspira spp.
10124	Chicken Astrovirus sequencing for differentiation of group A & B
24690	IBDV sequencing & phylogenetic analysis (VP1 & 2)
27500	IBDV conceptual translation (12 amino acids)
27510	IBDV conceptual translation (28 amino acids)
24680	IBV sequencing & phylogenetic analysis (S1)
24740	Influenzavirus A H5/H7 sequencing for HPAI/LPAI differentiation
10729	Influenzavirus A (partial HA- or NA-gene)
10119	MDV / Marek's Disease Virus sequencing
24710	NDV / aPMV-1 genotyping (I – XVIII) & pathotyping (assortment to lento-, meso- or velogenic)
24700	Avian Ortho-Reovirus sequencing & phylogenetic analysis (C- or NS-gene)
10731	MLST Pasteurella multocida
10732	16S rRNA isolate typing poultry (sequencing)
14500	increased sequencing efforts

Item-No.	Next Generation Sequencing (NGS)
10416	NGS – Next Generation Sequencing non-targeted poultry
10733	NGS IBV targeted (full genome)
10735	NGS microbiome (16S rRNA)
10736	NGS Whole Genome Sequencing of isolates

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VIROLOGY

Item-No.	Cultural Virus Isolation (exclusive PCR Confirmation)
10737	Virus cultivation of Fowl Adenovirus (FAdV/ IBH) & Avian Ortho-Reovirus (ARV) combined
10738	Virus cultivation of Infectious Bronchitis Virus (IBV)
10739	Virus cultivation of Duck Hepatitis Virus Type 1 (DHV-1)
10741	Virus cultivation of Influenza Virus A (IVA)
10742	Virus cultivation of Viral Hepatitis Virus of Turkeys (TVH, Picornavirus)
10743	Viral cultivation of Avian Rotavirus
–	further virus species on demand

GLOSSARY AND FOOTNOTES

Pooling of PCR samples

Samples of up to five individuals (max. 5 swabs or 5 pieces of AniCard/FTA-Card) can be pooled. It is crucial to indicate when sending several swabs whether these are already pooled or need to be pooled. Please find respective submission forms on www.anicon.eu in chapter downloads.

- ¹ Shipping costs are not included for sampling material and boxes. Delivery of boxes on request.
- ² This article includes cultural testing for Salmonella spp. as well as basic bacteriological testing (excl. further testing).
- ³ If several PCRs are ordered at the same time for one sample or sample pool, the listed scaffold price applies (see page 8 "PCR Packages (scaffolded rebate system)"). Subsequently ordered PCR(s) explicitly do not count towards the tiered pricing of previously ordered PCRs.

⁴ Direct diagnostics of Fowl Adenovirus (FAdV) and/or Avian Ortho-Reovirus (ARV) from raw samples by PCR methods may lead to false negative results; we run at least three passages of virus cultivation before confirmation by PCR methods in harvested cultural material, if not explicitly ordered for PCR only. Please see also article 10737 „Virus cultivation of Fowl Adenovirus (FAdV/ IBH) & Avian Ortho-Reovirus (ARV) combined“ in chapter virology.

⁵ Scaffold price is only valid after prior Salmonella spp. PCR.

⁶ DIVA – Differentiating Infected from Vaccinated Animals – method for differentiation of field strains from named vaccine strains.

⁷ The following toxin genes are analysed: major toxin genes alpha, beta, epsilon & iota and minor toxin genes beta2, enterotoxin & netB.

⁸ Currently comprising the following variants: 793B (CR88, 1/96, 4/91), QX (D388), D1466, Massachusetts, D274, Italy 02, Arkansas, Variante 2 (Israel 02/IS1494), Q1, IB80 and D181.

CONSULTING

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