

## Test Method List for Veterinary Services

Document Title	Test Name as Appears on Price List	Test Method	Accredited Y / N
<b>Chemistry</b>			
Acid Detergent Fibre	AADF	Gravimetric	Y
Acid Insoluble Ash	AAIA	Gravimetric	N
Aqua Regia Digest for Soils and Organic Wastes	Organic Waste - Minerals (Total P, TK, TMg, TCa, TNa, TCu, TZn, TFe, TS, TMn)* OMINS	Aqura regia Digest followed by ICP-OES and ICP-MS analysis	Y
Ball Milling Samples	Not on price list on its own. It is part of other packages	N/A	Y – as part of other packages
Bone Analysis	Bone ASH, Ca & P Bone Ca/Mg ratio	Gravimetric analysis for ash followed by HCl digestion and ICP-OES analysis for Ca, P and Ca/Mg ratio	N
Chloride Analysis	WCL *	Argentometry	N
Crude Fibre	ACF	Gravimetric	Y
Determination of Deoxynivalenol Concentration in Porcine Samples	DON – bile/serum/feed	Sample obtained and measured by Elisa plate.	N
Determination of Zearalenone Concentration in Porcine Samples	ZON – bile/serum/feed	Sample obtained and measured by Elisa plate.	N
Ether Extract and Acid Hydrolysed Ether Extract	AEE, AAHEE	Ether Extract, Acid Hydrolysis	N
GPS and Routine Soil pH Analysis	SFPH	The soil pH is determined potentiometrically from the suspension of soil with calcium chloride solution	Y
ICP-MS Analysis of Soils Extracted using the Aqua Regia Soil Totals Method	Soil Check - Contamination Assessment (TCu, TZn, TAs, TCd, TPb, TCr, THg, TNi, SXB) SCCA Soil - Mandatory package (Total Zn, TCu, TNi, TCd, TPb, THg, TCr) SM	Aqura regia Digest followed by ICP-MS analysis	Y

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ICP-MS Analysis of Whole Blood Samples	LeadA ManganeseA <b>SeleniumA</b> - whole heparinised blood	Dilution with Alkali then ICP-MS analysis	Y - Pb and Mn only
Kjeldahl Macro Digestion	ON, ACPF (not noted in price list)	Kjeldahl	Y
Kjeldhal Micro Digestion	STN, PN, ACP	Kjeldahl	Y
Modified Acid Detergent Fibre	AMAD	Gravimetric	N
Neutral Cellulase and Gammanase Digestibility	ANCGD	Gravimetric	Y
Neutral Detergent Fibre	ANDF	Gravimetric	Y
Neutralising Value of Liming Materials	FNV, ONV	Titration	Y organic waste is not
Non-Soil Sample Preparation, Dry Matter and Milling	PDM, ODM, ADM	Samples milled to 1mm and dry matter performed gravimetrically	Y – as part of other packages
Plant, Animal Feed and Vet Tissue Mineral Digestion	Plant Mineral package. Animal feed Mineral analysis. Tissue analysis for Copper or Lead, Tissue analysis for Selenium, Tissue analysis for Cobalt. Tissue analysis for copper, cobalt and selenium (package)	Nitric acid digest in a microwave	Y
Preparation and Analysis of NIR samples	AGSNIR, AWCNIR, AMSNIR	Near infrared reflectance	N
SAC Routine P Analysis	Extractable P & K only* SPKGPS RU (pH, Lime Requirement, Extractable P, XK, XMg, Ca & Na)* SRU	Modified Morgans reagent extraction with colour metric analysis.	Y
Serum Copper and Zinc	CopperA (serum or plasma acceptable - different reference ranges) ZincA ATubes must not contain rubber of gel components	Dilution with TCA followed by ICP-OES analysis.	Y
Soil and Organic Waste Acid Extractable Fluoride	STF *	Acid Extractable	Y organic waste is not
Soil Conductivity	SCON	Extracted with water and measured using a conductivity probe and meter	N

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Soil Conductivity in Calcium Sulphate	Not on price list on its own. It is part of other packages SCONC	Extracted with water and measured using a conductivity probe and meter	Y – as part of other packages
Soil Extractions (Excluding Boron)	Soils - Arable Package (SXCu, SXZn, SXMn, SXS & SXB) SAP	In-house extractions followed by ICP-OES analysis.	Y
Soil LOI and ASH/DM60 Analysis	SLOI	Gravimetric	Y
Soil Sample Drying and Milling	SPREP	NA	Y – as part of other packages
Starch Determination	ASTAR	Polarimeter	Y
Test Solution Preparation for Boron	Soil - Extractable Boron (Hot water extraction) SXB	CaCl <sub>2</sub> extraction followed by ICP-OES analysis.	Y
Tissue Dry Matter	Tissue analysis for copper, cobalt and selenium (Package)	Gravimetric analysis	Y
Total Sugar by Luff-Schoorl	ASUGR	Titration by Luff Schoorl	Y
Urinary Calculi	Calculi analysis	Titrimetric & Colourmetric	N
Vitamin A and E Analysis in Serum or Plasma by HPLC	Tissue analysis for copper, cobalt and selenium (Package)	HPLC	N
Vitamin A and E Analysis in Tissue by HPLC	Vitamins A or E	HPLC	N
Water Soluble Carbohydrate	AWSC	Spectrophotometry	N
Water Suspended Solids	WSUSO	Gravimetric	N
<b>Biochemistry</b>			
Biochem Sample Preparation	FIV/FeLV, PLI, CRP, Borrelia (Lyme), Angiostrongylus	Immunoassay	N
Immulite 2000XPI Operation	Cortisol, Folate, Insulin, Progesterone, Phenobarbitone, T4, TLI (canine), TSH (canine), Vitamin B12	Immunoassay	Y (except TLI and Insulin)
Imola Clinical Chemistry Analyser Operation	Albumin, ALP, Amylase, AST, Bile Acids, Bilirubin (total), beta-hydroxybutyrate(BOHB), Calcium, Cholesterol, CK, Creatinine, Fructosamine, GGT, GDH, Globulin, Glucose, GSH-Px, Iron, LDH, Lipase, Magnesium, NEFA, Phosphate, TIBC, Urea	Absorbance	Y (except Iron, LDH and TIBC)

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Measurement of Pepsinogen	Pepsinogen	Absorbance	N
Zinc Sulphate Turbidity Test	ZST	Turbidity	N
<b>Haematology</b>			
Blood Parasite Detection	Blood parasites	Microscopy	N
Differential WBC Counts	Differential	Microscopy	Y
Manual Red Blood Cell Count	RBC (non-mammal, camelid, caprine)	Microscopy	N
Packed Cell Volume	PCV (manual)	Microhaematocrit measurement	N
Processing of Blood Samples on the Horiba ABX Vetplus Haematology Analyser	RBC, WBC, PCV, Platelets	Impedance	Y
	Haemoglobin	Absorbance	
Reticulocyte Examination	Reticulocytes	Microscopy	N
<b>Microbiology</b>			
Antimicrobial Susceptibility Tests for Aerobic Bacteria	Antibiotic sensitivity	Culture	Y
Bacterial Identification using MALDI-TOF MS	Not on price list	Identification	Y
Bacteriological Examination of CNS	Bacterial culture	Culture	N
Bacteriological Examination of Milks	Bacterial culture	Culture	Y
Bacteriological Examination of Respiratory System	Bacterial culture	Culture	Y
Bacteriological Examination of Wound and Abscess Swabs and/or pus	Urinary tract tests	Culture, chemistry (dipstick) specific gravity , microscopy	Y
Bacteriological Guide for the Identification of Brachyspira hyodysenteriae and other Enteric Spirochaets	Brachyspira culture Brachyspira culture & biochemical ID	Culture	Y Culture if neg N if +ve
Bacteriological Identification	Bacterial culture	Culture & ID	Y
Blood Culture	Blood culture	Culture	Y
Clostridium Difficile Toxin Detection	Not on price list	Snap test	N
Culture and Identification of Fungi from Deep and Superficial	Not specified could be covered by bacterial culture	Culture	Y
Detection of and Screening for AmpC and/or Extended B Lactamase Producers (ESBLs)	Not on price list	Culture	N

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Detection of Anthrax by Microscopy - Polychrome Methylene Blue Stain	Antibiotic sensitivity	Culture & disc diffusion	Y
Detection of Chlamydia spp. Brucella spp. And Coxiella spp using Microscopy	Preparation & examination of smear	Microscopy	Y
Detection of Mycobacterium spp by Microscopy – ZN Stain	Preparation & examination of smear	Microscopy	Y
Examination of Skin and Hair for Dermatophilus	Dermatophilus	Culture & microscopy	Y
Examination of Skin and Hair for Dermatophytes	Ringworm- Microscopy & culture	Culture & microscopy	Y
Examination of Urine Samples	Bacterial culture	Culture	Y
Gram Stain	Bacterial culture	Culture	Y
Indirect FAT for Toxoplasma gondii	Not on price list	Fluorescent antibody test	Y
Isolation and Identification of Bordetella	Bacterial culture	Culture	Y
Isolation and identification of Enterotoxigenic E.coli	E coli	Culture	Y
Isolation and Identification of Salmonella	Salmonella screen	Culture	Y
Isolation and Identification of Shigella spp	Shigella	Culture	N
Isolation and Presumptive Identification of Mycoplasma bovis	Not on price list	Culture	N
Isolation of Anaerobic Bacteria from Animal species	Microscopy	Microscopy	Y
Laboratory Investigation of Abortion	Preparation & examination of smear	Microscopy	Y
Microbiological Examination of Ear, Mouth, Eye Fluid and Swabs	Post mortem examinations foetuses	Culture & microscopy	Y
Microbiological Examination of Necropsy Material and Other Miscellaneous Samples	Mastitis	Culture	Y
Occult Blood	Occult blood	Faecal occult blood test	N
Rose Bengal Plate Test	Not on price list	Agglutination test	Y
Screening and Confirmation of MRSA	Meticillin resistant Staphylococcus species	Culture	Y
Selective Culture for Brucella spp.	Bacterial culture	Culture	Y
Selective Culture of Campylobacter spp.	Campylobacter	Culture	Y
Selective Culture of Yersinia spp.	Yersinia	Culture	Y

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<b>Molecular Biology</b>			
Border Disease PCR	Border disease virus PCR	PCR	Y
BVDV Ear Tissue Real Time PCR Test	BVD PCR ear tissue	PCR	Y
BVDV Real Time RT-PCR	BVD PCR – individual animal validated aged > 6 weeks BVD individual test BVD virus PCR – bulk milk	PCR	Y
Conventional PCR	APP PCR APP toxin gene profiling PCR Atrophic rhinitis PCR Brachyspira PCR Lawsonia intracellularis PCR Strep. suis PCR	PCR	Y (all except Strep. suis PCR)
E. coli Virulence Factor Multiplex PCR	E.coli virulence PCR	PCR	Y
Examination of Enteric samples for Rotavirus by PAGE	Rotavirus PAGE	PAGE	Y
IDGene MAPPCR	Johne's (MAP) PCR	PCR	Y
M. hyo Real Time PCR	Mycoplasma hyopneumoniae	PCR	Y
Mycoplasma bovis Real Time PCR	Mycoplasma bovis PCR	PCR	Y
PCV2 Real Time PCR	Porcine circovirus Type 2A	PCR	Y
PRRSV Real Time RT-PCR	PRRS PCR	PCR	Y
Respiratory Multiplex Real Time RT-PCR	Bovine pneumonia PCR for IBR, RSV, PI3A	PCR	Y
SCRAPIE GENOTYPING OF THE 136, 154 AND 171 CODONS BY REAL TIME PCR	Codons 136, 154, 171 (export testing)	PCR	Y
SIV Real Time RT-PCR	Swine influenza PCR	PCR	Y
TGEV, PEDV & SDCV Real Time RT-PCR	PED/TGE virus PCR Porcine Deltacoronavirus PED/TGE + Porcine Deltacoronavirus	PCR	Y

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<b>Parasitology</b>			
Bovine Coccidia Speciation	ID of bovine coccidia	Microscopic examination	N
Detection of Cryptosporidium by microscopy – CZN Stain	Cryptosporidia	Cold Ziehl-Neelsen technique	Y
Detection of Ectoparasites	Skin parasitology	Microscopic examination	N
Detection of Giardia Antigen in Faeces	Giardia	ELISA Snap kit	N
Equine Coproculture	Not found on price list	Larval culture	N
Equine Tapeworm Egg Detection	Anoplocephala	Sugar flotation	N
Fluke Egg Detection	Liver Fluke Egg Check	Sedimentation	N
Lungworm Larvae Recovery	Lungworm	Baermann assay	N
Ovine Coccidia Speciation	ID of ovine coccidia	Microscopic examination	N
Total Worm Count (Grouse)	Grouse caecal worm count	Microscopic examination	N
Total Worm Count (Ruminant)	Not found on price list	Microscopic examination	N
Worm Egg Count	Worm egg/coccidial oocyst count	Modified McMaster technique	N
<b>Serology</b>			
Bovine Viral Diarrhoea (BVD Ab) Elisa (Svanova)	BVD antibody – milk	ELISA	Y
BVD P80	BVD BVD Antibody Borders Disease Antibody	ELISA	Y – BVD N – Borders Disease
Caseous Lymphadenitis ELISA	CLA	ELISA	N
Chlamydia abortus ELISA - ID Vet	EAE	ELISA	Y
Clostridium perfringens Toxin ELISA	Clostridial toxin ELISA - per toxin	ELISA	N
Coproantigen ELISA	Liver fluke coproantigen ELISA	ELISA	N
Detection of Bovine CoronaVirus, RotaVirus type and E.Coli K99 by ELISA	Virus detection: Coronavirus (ELISA) and rotavirus (PAGE/ELISA) K99 Not on price list	ELISA	Y Coronavirus/ Rotavirus  N K99

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ELITEST MVV/CAEV Antibody ELISA	Not on price list Confirmatory test from MV	ELISA Health scheme samples only	N
IBR gE ELISA Test	IBRgE (Marker) IBR (BHV-1 gE)	ELISA	Y
ID Screen Schmallenberg Virus Indirect ELISA	Schmallenberg virus (SBV)	ELISA	Y serum and milk only
ID Vet Johnes ELISA	Johne's Antibody Johne's (MAP) Johne's	ELISA	Y (sera) N (Milk)
Idexx BVDV Antigen ELISA	BVD ANTIGEN	ELISA	Y
IDEXX BVDV Total Ab Indirect ELISA	BVD	ELISA	Y
IDEXX Mycoplasma Hyopneumoniae Antibody ELISA Test	M.hyopneumoniae ELISA	ELISA	N
Idexx PRRS ELISA	PRRS ELISA	ELISA	Y
Idexx Salmonella Antibody ELISA	Porcine Salmonella	ELISA	N
Infectious Bovine Rhinotracheitis (BVH1)gB Antibody ELISA	IBR, IBR Antibody, IBR(BHV-1 gB)	ELISA	Y
IRP (Bovine Respiratory Diseases)	IBR, RSV, PI3	ELISA	Y
Leptospira ELISA	Leptospira hardjo L hardjo Antibody Lepto	ELISA	Y
Linnodee Lepto ELISA	Leptospira hardjo Lepto L hardjo Antibody	ELISA	Y
Liver Fluke ELISA	Fasciola hepatica (Cattle Sera & Milk) Liver Fluke Antibody (Sheep)	ELISA	N
LSI Neospora ELISA	N. caninum Neospora	ELISA	Y
MHYO ID VET ELISA	New Test not on price list confirmatory test from M.hyopneumoniae	ELISA	N
MV ID Vet ELISA	MV/CAE Maedi visna (MV)	ELISA	Y



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MVD-Enfer Chlamydia abortus specific ELISA	NEW Test not on price list Confirmatory test from EAE	ELISA Health scheme only	N
MYCOPLASMA BOVIS IDVET ELISA	M. bovis	ELISA	N
Salmonella Dublin ELISA	Not on price list	ELISA	N
Toxoplasma gondii Antibody ELISA	toxoplasmosis	ELISA	Y
VMRD Neospora ELISA	N. caninum Neospora	ELISA	N