Sample Type	Test	Results Generated	Equipment/Method
Haematology:			
Whole blood Equine/Canine/Feline	Full blood count	Red cells Haemoglobin Hct MCV (Mean Cell Volume) MCH (Mean corpuscular haemoglobin) MCHC (Mean corpuscular haemoglobin concentration) White cells Neutrophils Lymphocytes Monocytes Eosinophils Basophils Platelets Reticulocytes Reticulocyte Haemoglobin	WET-HAE-SOP 5868 SYSMEX Xn-V (direct current impedance & fluorescence staining). Film stain using Sysmex SP-50 stainer WET-HAE-SOP-8429 Haemoglobin where necessary by colorimetric analysis using Hemocue Spectrophotometer (WET-HAE-SOP-396) Haematocrit (Hct) where necessary by centrifugation using microhaematocrit centrifuge (WET-HAE-SOP-394) Manual Reticulocyte count where necessary by Supravital staining and microscopy (WET-HAE- SOP-398)
Canine & feline blood only Canine & feline blood only			
	Differential white blood cell count and blood film assessment	Blood film assessment	Manual film assessment (WET-HAE-SOP-399) & differential using light microscope (WET-HAE- SOP-401) and using Philips Digital scanner (UK-HAE-SOP-5321)
		Buffy coat preparation	WET-HAE-SOP-402 Buffy coat preparation where necessary, using microhaematocrit centrifuge and Hema Tek slide stainer WET-HAE-SOP-395
EDTA whole blood	Canine/Feline Coombs test	Coombs test	WET-HAE-SOP-5429 using Alvedia Gel Test
EDTA whole blood	Canine and Feline Blood Grouping performance	Canine and feline Blood Grouping	WET-HAE-SOP-405 & 406 using Alvedia lab test Kit
Whole blood and serum	Cross-matching	Compatibility result	WET-HAE-SOP-407 by haemagglutination and microscopy
Plasma (citrated)	Fibrinogen	Fibrinogen	WET-HAE-SOP-6057 by Stago Compact Max Using mechanical & optical coagulation.
	Prothrombin time	Prothrombin time	WET-HAE-SOP-6518 Coagulation using the Stago Start Max Analyser
	Partial thromboplastin	Partial thromboplastin	

Sample Type	Test	Results Generated	Equipment/Method
Immunoserology:			
Serum	Heartworm, Lyme and Ehrlichia by SNAP® 4Dx®	Heartworm antigen	WET-HAE-SOP-3535 by IDEXX SNAP® 4Dx®
		Ehrlichia canis antibodes	
		Canine Lyme Antibodies	
	FIV Antibody Detection	FIV antibody test	WET-HAE-SOP-418 by IDEXX ELISA
		FIV Western blot	WET-HAE-SOP-419 by Western blot using IDEXX FIV Kit
	FeLV antigen detection	Feline leukaemia virus	WET-HAE-SOP-417 using IDEXX FeLV ELISA
	Canine Pancreatic Lipase	Canine Pancreatic Lipase	WET-HAE-SOP-3716 by IDEXX ELISA cPL®
	Canine Anti-Thyroglobulin Antibodies	TGAA Test	WET-HAE-SOP-2139 by ELISA
EDTA Plasma	Canine NT pro-BNP	Canine pro-BNP	WET-HAE-SOP-3463 by Canine Cardiopet Plus ELISA (IDEXX) using full automation (Tecan Freedom EVO WET-HAE-SOP5153), automation of sample dilutions or manual method
	Feline NT pro-BNP	Feline NT pro-BNP	WET-HAE-SOP-3450 by Feline Cardiopet Plus ELISA (IDEXX)

Sample Type	Test	Results Generated	Equipment/Method
Biochemistry:			
			AU5800 documented inhouse procedure WET-BIO-SOP-453
Serum/Plasma	Albumin	Albumin	Photometric, bromocresol green
	Alkaline phosphatase	Alkaline phosphatase 37C	Photometric, IFCC EC 3.1.3.1
	Alanine aminotransferase	ALT (SGPT) 37C	Photometric, IFCC without P5P EC 2.6.1.2.
	Aspartamine Aminotransferase	AST(SGOT) 37C	Photometric IFCC without P5P EC 2.6.1.1
	Amylase	Amylase	Photometric IFCC (EPS) EC 3.2.1.1
	B-hydroxy-butyrate	BHB	Photometric, kinetic:
	Bile acids	Bile acids	Photometric, L3K enzymatic recycling assay
	Total Bilirubin	Total Bilirubin	Photometric, DPD
	Calcium	Calcium	Photometric, Arsenazo III
	Cholesterol	Cholesterol	Photometric, CHOD-PAP
CSF samples also	CK (CPK)	CK (CPK) 37C	Photometric, IFCC EC 2.7.3.2
	Copper	Copper	Photometric
	Creatinine	Creatinine	Photometric, Jaffe kinetic
	Fructosamine	Fructosamine	Photometric, NBT reduction
	Gamma GT	Gamma GT	Photometric, IFCC EC 2.3.2.2
	Glucose	Glucose	Photometric HK G6P-DH
	Glutamate dehydrogenase (GLDH)	GLDH	DGCK EC 1.4.1.3
	Inorganic phosphorus	Inorganic phosphorus	Photometric, molybdate, UV
	Iron	Iron	Photometric, TPTZ
	Lactate Dehydrogenase 1.1.1.27 (LDH)	LDH 37C	Photometric, SCE EC
	Lipase	Lipase	Photometric, enzymatic, colorimetric
	Magnesium	Magnesium	Photometric, xylidyl blue
	Total protein	Total protein	Photometric, blue violet
	Sodium, potassium and chloride	Sodium, potassium and chloride	Indirect ISE

	Triglycerides	Triglycerides	Photometric
	Uric acid	Uric acid	Photometric, Uricase PAP
	Urea	Urea	Photometric, Urease- GLDH
Urine	Sodium, potassium and chloride	Sodium, potassium and chloride	IndirectISE
	Creatinine	Creatinine	Photometric, Jaffe kinetic
Urine/CSF	Total Protein	Total Protein	Photometric, pyrogallol red/molybdate
Serum	Symmetric dimethylarginine (SDMA)Immunoassay	SDMA	IDEXX Inc. competitive homogeneous immunoassay
Serum/Plasma	Phenobarbital	Phenobarbital	Microgenics CEDIA Phenobarbital II Assay (homogeneous enzyme immunoassay)
	Thyroxine	Thyroxine	Microgenics T4 assay (homogeneous enzyme immunoassay)
Urine	Protein Separation – Albumin Alpha 1 globulin Alpha 2 Beta Globulin Gamma Globulin	UPE	WET-BIO-SOP-2676 by agarose gel Electrophoresis using Helena SAS 3 & 4 analyser
Serum	Protein Separation – Albumin Alpha 1 globulin Alpha 2 Beta Globulin Gamma Globulin	SPE	WET-BIO-SOP-8493 by capillary electrophoresis using Sebia Minicap flex piercing system

Sample Type	Test	Results Generated	Equipment/Method
Endocrinology:			
			Immulite XPI documented inhouse procedure WET-BIO-SOP-546
Serum/Plasma (Heparin)	Cobalamin	Cobalamin	Chemiluminescent competitive immunoassay
	Cortisol	Cortisol	
	Folate	Serum Folate	
	Progesterone	Progesterone	
	Thyroxine	Thyroxine	
	Canine serum TSH	Canine serum TSH	
Serum	Digoxin	Digoxin	
Cytology Tests:			
Aspirated Systemic Fluids Incl. (urine/pleural/ascetic & Misc. aspirates)	Total Protein	Total Protein	**Refractive Index** WET-CYT-SOP-600 using a refractometer.

Sample Type	Test	Results Generated	Equipment/Method
Microbiology:			
Animal swabs, tissues and biological fluids as specified.			
Bacterial Colonies from solid media	Identification based upon bacterial protein profile matching against a defined database	Micro-organisms of veterinary significance	WET-MIC-SOP-3394 using the Bruker MALDI-TOF MS system
	Microbial identification and MIC- antimicrobial susceptibility	Susceptibility profile	WET-MIC-SOP-2879 & WET-SOP-4338 using VITEK 2XL
Swabs from nasal and throat, ears, skin, abscess/cyst anal gland & interdigital cyst	Culture & isolation of veterinary significant organisms	Micro-organisms of veterinary significance	WET-MIC-SOP-2875 & WET-MIC- SOP-664 as appropriate to the sample type with identification according to WET-MIC-SOP-713. Plating out using manual or automated (WASP WET-MIC-SOP-4580) methods
Swabs from eyes	Culture & isolation of veterinary significant organisms	Micro-organisms of veterinary significance	As per WET-MIC-SOP-4191
Equine Genital Tract Samples	Screening for Taylorella equigenitalis, Klebsiellapneumoniae & pseudomonas aeroginosa	Prescence of Taylorella equigenitalis, Klebsiellapneumoniae & pseudomonas aeroginosa	WET-MIC-SOP-674 as screening for CEMO under the Code of Practice of the Horse Race Betting Levy Board
Blood cultures Fluids/Aspirates	Culture & isolation of veterinary & significant organisms	Micro-organisms of veterinary clinical significance	WET-MIC-SOP-675 & WET-MIC-SOP- 676 as appropriate to the sample type (By enrichment)
Skin, hair and skin swabs	Culture & isolation of veterinary & significant organisms	Demonstrate presence of micro-organisms of veterinary clinical significance including bacteria, fungi, yeasts & ectoparasites	WET-MIC-SOP-2875 Microscopy WET-MIC-SOP-4397 Dermatophytes WET-MIC-SOP-4405 Non-dermatophytes WET-MIC-SOP-4406 Skin, hair, nails WET-MIC-SOP-4407 Plating out using manual or manual or automated (WASP WET-MIC-SOP-4580) methods
Urine	Urine Chemistry	Urine Chemistry; pH, Protein, Roche Glucose, Ketones, Bilirubin, /Blood/Haemoglobin	WET-MIC-SOP-4176 using Combur 10 strip test WET-MIC-SOP-8526 using Siemens Multistix 10SG dipstick
	Urine examination	White blood cells red blood cells crystals, casts & epithelial cells	WET-MIC-SOP-4181 by microscopy
		Specific Gravity	WET-MIC-SOP-4197 by refractometer or
		Urine Chemistry; pH, Protein, Roche Glucose, Ketones, Bilirubin, /Blood/Haemoglobin	WET-MIC-SOP-5051 Using Roche U601 analyser. WET-MIC-SOP-8006 CLINITEK Novus automated urine chemistry analyser

Faeces		Specific Gravity	
		Colour & Clarity	
	Culture & isolation of veterinary significant organisms	Demonstrate presence of micro-organisms of veterinary clinical significance	WET-MIC-SOP-4221 Plating out using manual or Automated (WASP WET-MIC-SOP-4580) methods
	Faecal examination, culture & selective identification	Salmonella spp	WET-MIC-SOP-650 by enrichment (Rappaports V and selective plating (Brilliant Green Agar). Plating out using manual or manual or automated (WASP WET-MIC-SOP-4580) methods
	Faecal examination, culture & identification	Campylobacter spp	WET-MIC-SOP-4500 by direct plating
	Faecal examination	Demonstration of parasites of veterinary clinical significance	WET-MIC-SOP-4337 using direct microscopy WET-MIC-SOP-4305 using zinc sulphate centrifugation
		Lungworm	WET-MIC-SOP-4294 by the Baermann test
		Worm egg count	WET-MIC-SOP-4324 using modified McMasters technique

Sample Type	Test	Results Generated	Equipment/Method
Histology:			
Fresh & fixed tissues and paraffin wax blocks of processed tissue.	Histology	Interpretation of routine histological staining including diagnosis for the purpose of disease identification.	All below methods supported by documented procedures for cutting up, processing, embedding dehydration, clearing and mounting.
		Identification of basophilic and eosinophilic structures	Haematoxylin and Eosin (H&E) WET-HIS-SOP-49 & WET-HIS-SOP-205 manual & automated methods
	Special staining as required to aid in the identification of structures and cell morphologies for the diagnosis of disease identification	Presence of Gram positive; negative bacteria	Gram Staining WET-HIS-SOP-209
		Presence of Acid Alcohol Fast Bacteria	Ziehl Neelson WET-HIS-SOP-208 & WET-HIS-SOP-205 manual & automated methods
		Reticulin or reticulin fibers	Gordons & Sweets WET-HIS- SOP-4373
		Heparin granules	Toluidine Blue WET-HIS-SOP-206 & WET-HIS-SOP-205 manual & automated methods
		Ferric iron	Perls Prussian Blue WET-HIS-SOP-207
		Carbohydrates	Trichrome Stain WET-HIS-SOP-210
		Basement membranes	Melanin Bleach WET-HIS-SOP-211 & WET-HIS-SOP-205 manual & automated methods
		Connective Tissue	Congo Red WET-HIS-SOP-213
		Copper	Rubeanic acid WET-HIS-SOP-215
		Fungal elements	Periodic Acid Schiff WET-HIS-SOP-216 and WET-HIS-SOP-205 manual & automated methods
		Protozoa	Tissue Giemsa WET-HIS-SOP-236 WET-HIS-SOP-205 manual & automated methods
Anatomical Pathology – Opinions & Interpretations	Opinions & interpretations of results for histology staining as included within the schedule of accreditation.	Interpretation of histology and Immunohistochemistry staining for the purposes of disease identification in companion animals.	Documented in house procedures