


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>4649</b> Accredited to ISO/IEC 17025:2005</p>	<h3>Animal Health Trust</h3> <p><b>Issue No: 010 Issue date: 26 February 2018</b></p>	
	<p><b>Lanwades Park</b> <b>Kentford</b> <b>Newmarket</b> <b>Suffolk</b> <b>CB8 7UU</b></p>	<p><b>Contact: Sue Cade</b> <b>Tel: +44 (0)1638 555622</b> <b>Fax: +44 (0)1638 555601</b> <b>E-Mail: sue.cade@aht.org.uk</b> <b>Website: www.aht.org.uk</b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>ANIMAL TISSUES AND BODY FLUIDS</b></p> <p>Blood</p>	<p><b>Biochemistry</b></p> <p>Quantification of: A/G Ratio Albumin ALT AP AST Bile Acids Calcium Chloride Cholesterol CK Creatinine GGT Glucose Phosphate Potassium Sodium Total Bilirubin Total Globulins Total Protein Triglycerides Urea</p>	<p>Documented In-house Method: SOP/CLIN/35 Indiko Plus</p>
<p>Blood - dogs, cats and horses</p>	<p><b>Haematology</b></p> <p>Full Blood Count</p>	<p>Documented In-house Methods: SOP/CLIN/29 ADVIA Haematology Analyser</p>
<p>Blood, EDTA anti-coagulated, dogs cats and horses</p>	<p>Full blood count including automated reticulocyte count</p>	<p>SOP/CLIN/29 ADVIA120 haematology analyser</p>
<p>Blood, Li heparin anti-coagulated, dogs and horses</p>	<p>Smear evaluation - white blood cell differential</p>	<p>SOP/CLIN/03 using the Hema-tek automatic slide stainer (SOP/CLIN/04)</p>



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ANIMAL TISSUES	<b>Histopathology</b>	
Fresh and fixed tissues processed and embedded in paraffin wax	Detection of specific cellular structures and composition	Documented In-house Methods for staining and reading, supported by SOPs for cutting up, processing, embedding dehydration, clearing and mounting (SOP/PATH/15, SOP/PATH/10, SOP/PATH/09, SOP/PATH/04) Using Shandon or Histos 5 tissue processors
	Identification of basophilic and eosinophilic structures	SOP/PATH/11 Haematoxylin and Eosin ('H & E') stains
	Presence of Acid Alcohol Fast Bacilli (AAFB)	SOP/PATH/13-R (Ziehl Neelsen)
	Presence of Gram positive and Gram negative bacteria	SOP/PATH/13-F (Hucker Conn Gram)
	Identification of structures and cell morphologies:	Documented In-house Methods using Specialist Stains as below:
	Collagen/smooth muscle (differentiation)	SOP/PATH/13-O (Van Gieson)
	Mucopolysaccharides, fungal hyphae, Glycogen	SOP/PATH/13-J (Periodic Acid Schiff - PAS)
Fresh and fixed tissues processed and embedded in paraffin wax	Detection of specific cellular structures and composition	Documented In-house Methods for staining and reading, supported by SOPs for cutting up, processing, embedding dehydration, clearing and mounting (SOP/PATH/15, SOP/PATH/10, SOP/PATH/09, SOP/PATH/04 SOP /PATH/39) Using Shandon or Histos 5 tissue processors
	Non-haemoglobin iron	SOP/ PATH/13-K (Perls' Prussian Blue)
Fresh and Fixed Tissues processed and embedded in paraffin wax	Detection of specific cellular structures and composition:	SOP/PATH/13-N (Toluidine Blue)
	Mast cells	



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<b>ANIMAL TISSUES AND BODY FLUIDS</b>	<b>Microbiology</b>	Documented In-house Methods:
Swabs	Isolation and identification of <i>Klebsiella pneumoniae</i> & <i>Pseudomonas aeruginosa</i>	SOP/ BACT/08 supported by SOP/BACT/01 - conventional culture technique using CLED and Cetrimide agars, under the Code of Practice of the Horse Race Betting Levy Board
Nasal Swabs	Isolation and identification of <i>Streptococcus equi</i>	SOP/ BACT/02 supported by SOP/BACT/01 - conventional culture technique using Staph/Strep selective agar, under the Code of Practice of the Horse Race Betting Levy Board
Serum	Detection of antibodies to <i>Babesia caballi</i> (Piroplasmosis)	SOP/VIROL/49 by VMRD cELISA using plate reader and Soft Max Pro software
Serum	Detection of antibodies to <i>Theileria (Babesia) equi</i> (Piroplasmosis)	SOP/VIROL/49 by VMRD cELISA using plate reader and Soft Max Pro software
Serum	Detection of IgG antibodies to <i>Streptococcus equi</i>	SOP/VIROL/44 - in house ELISA using pre-coated plates and freeze dried controls or wet plate method, with plate reader and Soft Max Pro Software - under the Code of Practice of the Horse Race Betting Levy Board
Equine nasal swabs and tissues	Detection of Equine Influenza Virus RNA	SOP/VIROL/48 qPCR using ABI StepOnePlus thermal cyclers
Equine nasopharyngeal swabs, tracheal wash and bronchial-alveolar lavage and tissues	Detection of Equine Herpes Virus Types 1 and 4	SOP/VIROL/47 qPCR using ABI StepOnePlus thermal cyclers or Techne Quantica
Equine nasopharyngeal swabs, nasal and tracheal washes or aspirates, guttural pouch washes and chondroids, swabs or pus from abscesses	Detection of <i>Streptococcus equi</i> DNA	SOP/BACT/36 qPCR using ABI StepOnePlus thermal cyclers



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ANIMAL TISSUES AND BODY FLUIDS (cont'd)  Equine and asinine genital and endometrial swabs	<b>Microbiology</b> (cont'd)  Detection of <i>Taylorella equigenitalis</i> and <i>Taylorella</i>	Documented In-house Methods:  SOP/BACT/39 qPCR using ABI StepOnePlus thermalcycler under the Code of Practice of the Horse Race Betting Levy Board
Canine cheek swabs or whole blood (EDTA)	<b>Molecular Genetics</b>  Hereditary Cataract Test   DNA Profiling	Documented In-house Methods:  SOP/IMUN/70 Appendix V for PCR (supported by SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cyclers and capillary electrophoresis by the ABI Prism 3130xl genetic analyser  SOP/IMUN/52 for PCR (supported by SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cyclers and capillary electrophoresis by the ABI Prism 3130xL genetic analyser
Canine cheek swabs	Golden Retriever Progressive Retinal Atrophy (PRA1)   Golden Retriever Progressive Retinal Atrophy (PRA) 2	SOP/IMUN/70 Appendix XI for PCR (SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cyclers and capillary electrophoresis by the ABI Prism 3130xL genetic analyser  SOP/IMUN/70 Appendix XI for PCR (supported by -SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cyclers and capillary electrophoresis by the ABI Prism 3130xL genetic analyser



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<b>ANIMAL TISSUES AND BODY FLUIDS (cont'd)</b>  Canine cheek swabs	<b>Molecular Genetics (cont'd)</b>  Tibetan Spaniels and Tibetan Terriers Progressive Retinal Atrophy (PRA) 3  Primary Lens Luxation Test (PLL)	Documented In-house Methods:  SOP/IMUN/70 Appendix XIII for PCR (supported by SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cycler and capillary electrophoresis by the ABI Prism 3130xL genetic analyser  SOP/IMUN/69 Appendix 1 for PCR (supported by SOP/IMUN/56 – Isolation of DNA from blood and cheek swab samples) using ABI StepOne Plus Real-Time PCR System
Cattle Hair	DNA Profiling	SOP/IMUN/46 for PCR (supported by SOP/ IMUN/01 extraction of DNA from hair)) using the MJ Tetrad, G-Storm 4, G-Storm 2 or Bio-Rad T100 thermal cycler and capillary electrophoresis by the ABI Prism 3130xL genetic analyser
Equine blood and hair	DNA Profiling	SOP GSERV/04 Multiplex PCR (supported by GSERV/02 extraction of DNA from blood or SOP/GSERV/03 extraction of DNA from hair) using Labtech International GS4M G-Storm thermal cycler and capillary electrophoresis by the ABI Prism 3130xL genetic analyser
<b>BACTERIAL CULTURES</b>  <i>Klebsiella pneumonia</i>	<b>Molecular Biology</b>  Capsule typing K1, K2 and K5	SOP/BACT/38 Multiplex PCR using MJ Tetrad Thermal Cycler and agarose gel electrophoresis
END		