

	FACULTY OF VETERINARY MEDICINE VETERINARY LABORATORY SERVICES UNIT DOCUMENT CODE: UPM/FPV/VLSU/G003
	VLSU FEE SCHEDULE

BACTERIOLOGY

NO.	EXAMINATION/TEST	FEE (RM)
1	Bacterial isolation Bacterial identification (1-3 isolates) Bacterial identification (> 3 isolates)	Please contact direct to lab
2	Special culture and identification (<i>Leptospira</i>)	Please contact direct to lab
3	Fungal culture and identification	Please contact direct to lab
4	Antibiotic Sensitivity Test *one organism (for a maximum of 6 antibiotics)	Please contact direct to lab
5	Microscopic agglutination test (MAT)	Please contact direct to lab
6	Polymerase chain reaction (PCR) for <i>Leptospira</i>	Please contact direct to lab
7	PCR for any bacteria	Please contact direct to lab
8	Routine smear and special staining; • Acid fast • Modified Ziehl Neelson • Methylene blue • Wright's • McFadyean • Gram	Please contact direct to lab
9	Special culture and identification-upon request (eg. <i>Mycoplasma</i> , <i>Dermatophilus</i>)	Please contact direct to lab
10	Bacterial counts in meat, milk, egg, water and feed: • Standard plate count (SPC) • Coliform plate count (CFC)	Please contact direct to lab
11	Rose Bengal Plate Test (RBPT)	Please contact direct to lab

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PARASITOLOGY

NO.	EXAMINATION/TEST	FEE (RM)
1	Blood Examination • Direct wet mount • Thin blood film • Thick blood smear • Knott's Concentration Technique (KCT) • Haematocrit Centrifuge Technique (HCT)	Please contact direct to lab
2	Haemoparasites Diagnostic Panel (Blood Examination) Direct wet mount, Stained Thin Blood Film, KCT*/HCT*) <i>*depending on the host species</i>	Please contact direct to lab
3	Faecal Examination • Direct wet mount • Simple floatation • Faecal smear & staining • Modified McMaster • Formal – ether sedimentation • Sedimentation • Faecal culture	Please contact direct to lab
3	Gastrointestinal Parasites Diagnostic Panel (Faecal examination) Direct wet mount/Stained Faecal Smear, Salt floatation*, McMaster*, Sedimentation* <i>*depending on the host species</i>	Please contact direct to lab
3	Intestine/Organ: • Direct wet mount • Direct examination • Squash smear • Impression smear & staining • Scraping + simple floatation • Scraping + staining	Please contact direct to lab

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4	Total Worm Count • Small ruminant • Large ruminant	Please contact direct to lab
5	Identification of Endo/Ectoparasites Morphological Identification 1) Domestic animals • Arthropods • Helminths 2) Wildlife • Arthropods • Helminths	Please contact direct to lab
6	Molecular Detection (PCR)	Please contact direct to lab
7	Molecular Identification (Sequencing and Interpretation)	Please contact direct to lab

HISTOPATHOLOGY

NO.	EXAMINATION/TEST	FEE (RM)
1	Biopsy (Tissue Processing, and H&E Staining)	Please contact direct to lab
2	Tissue Processing	Please contact direct to lab
3	Special Staining	Please contact direct to lab
4	Consultation (Microscopic Examination)	Please contact direct to lab
5	Picture (Upon request only for current cases) Max 2 picture per page	Please contact direct to lab

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POST MORTEM

NO.	EXAMINATION/TEST	FEE (RM)
1	Gross Postmortem: - Small Animal - Large Animal	Please contact direct to lab
2	Carcass Disposal: - Small Animal - Large Animal	Please contact direct to lab

VIROLOGY

NO.	EXAMINATION/TEST	FEE (RM)
1	Tissue Culture Diagnosis	Please contact direct to lab
2	Egg Inoculation Diagnosis	Please contact direct to lab
3	HA & HI Test	Please contact direct to lab
4	ELISA	Please contact direct to lab
5	Molecular : PCR	Please contact direct to lab
6	Molecular : Reverse Transcriptase PCR (RT-PCR)	Please contact direct to lab
7	Molecular : Nested PCR	Please contact direct to lab
8	Molecular : Nested RT-PCR	Please contact direct to lab
9	Molecular Identification (Sequencing and Interpretation)	Please contact direct to lab
10	Molecular Identification (Sequencing, Interpretation and Phylogenetic Analysis)	Please contact direct to lab

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AQUATIC

NO.	EXAMINATION/TEST	FEE
1	Post mortem	Please contact direct to lab
2	Parasitology (endo & ecto parasite)	Please contact direct to lab
3	Bacteriology	
	(a) API 20E System	Please contact direct to lab
	(b) BBL Crystal	Please contact direct to lab
	(c) Gram staining	Please contact direct to lab
4	Antibiotic Sensitivity Test	Please contact direct to lab
5	Media Bacteria (TSA, NA)	Please contact direct to lab
6	Virology test (PCR)	
	(a) KHV (Conventional)	Please contact direct to lab
	(b) KHV (Portable realtime PCR)	Please contact direct to lab
	(c) Iridovirus (Conventional)	Please contact direct to lab
	(d) Iridovirus (Portable realtime PCR)	Please contact direct to lab
	(e) SVC, VNN (Conventional)	Please contact direct to lab
	(f) SVC, VNN (Portable realtime PCR)	Please contact direct to lab
7	Mycology	Please contact direct to lab
8	Histopathology:	
	(a) Slide preparation (less than 3 specimens)	Please contact direct to lab
	(b) Slide Reading	Please contact direct to lab
	(c) May-Grunwald + Giemsa staining	Please contact direct to lab
9	Water quality:	
	(a) Ammonia	Please contact direct to lab
	(b) Nitrite/nitrate	Please contact direct to lab
	(c) Chlorine	Please contact direct to lab
	(d) Water hardness	Please contact direct to lab
	(e) Alkalinity	Please contact direct to lab
	(f) Salinity	Please contact direct to lab
	(g) Temperature	Please contact direct to lab
	(h) pH	Please contact direct to lab
	(i) Oxygen	Please contact direct to lab
	(j) Formalin	Please contact direct to lab

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CLINICAL PATHOLOGY

NO.	EXAMINATION/TEST	FEE (RM)
1	Biochemistry: Individual Test	
	Albumin (ALB)	
	Alkaline Phosphatase (ALP)	
	Alanine Aminotransferase (ALT)	
	Aspartate Aminotransferase (AST)	
	Bilirubin Direct (DBIL)	
	Bilirubin Total (TBIL)	
	Calcium (CA)	
	Cholesterol (CHOL)	
	Chloride (CL)	
	Creatinine (CREA)	
	Gamma-Glutamyl Transferase (GGT)	
	Glucose (GLU)	
	Low-Density Lipoprotein (LDL)	
	Phosphate (PHOS)	
	Potassium (K)	
	Sodium (NA)	
	Total Protein (TP)	
	Triglycerides (TGL)	
	Urea	
	Indirect (Unconjugated) Bilirubin = TBIL - DBIL	
	Globulin (G) = TP – ALB	
	Amylase (AMY)	
	Creatine Kinase (CK)	
	High-Density Lipoprotein (HDL)	
	Lactate (LAC)	
	Lactate Dehydrogenase (LDH)	
	Lipase (LIP)	
	Uric Acid (UA)	

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NO.	EXAMINATION/TEST	FEE (RM)
2	Large Animal Biochemistry Panel: Albumin (ALB) Alkaline Phosphatase (ALP) Aspartate Aminotransferase (AST) Bilirubin Direct (DBIL) Bilirubin Total (TBIL) Calcium (CA) Chloride (CL) Creatinine (CREA) Creatine Kinase (CK) Gamma-Glutamyl transferase (GGT) Globulin (G) = TP - ALB Glucose (GLU) Indirect (Unconjugated) Bilirubin = TBIL - DBIL Sodium (NA) Potassium (K) Phosphate (PHOS) Total Protein (TP) Urea	Please contact direct to lab
3	Large Animal Liver Panel: Albumin (ALB) Aspartate Aminotransferase (AST) Gamma-Glutamyl Transferase (GGT) Bilirubin Direct (DBIL) Bilirubin Total (TBIL) Total Protein (TP) Globulin (G) = TP - ALB Indirect (Unconjugated) Bilirubin = TBIL - DBIL Total Protein (TP)	Please contact direct to lab

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NO.	EXAMINATION/TEST	FEE (RM)
4	Large Animal Renal Panel: Albumin (ALB) Chloride (CL) Creatinine (CREA) Globulin (G) = TP – ALB Potassium (K) Phosphate (PHOS) Sodium (NA) Total Protein (TP) Urea	Please contact direct to lab
5	Small Animal Biochemistry Panel: Albumin (ALB) Alanine Aminotransferase (ALT) Alkaline Phosphatase (ALP) Aspartate Aminotransferase (AST) Bilirubin Direct (DBIL) Bilirubin Total (TBIL) Calcium (CA) Chloride (CL) Creatinine (CREA) Creatine Kinase (CK) Gamma-Glutamyl transferase (GGT) Glucose (GLU) Globulin (G) = TP - ALB Indirect (Unconjugated) Bilirubin = TBIL - DBIL Potassium (K) Phosphate (PHOS) Sodium (NA) Total Protein (TP) Urea	Please contact direct to lab

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NO.	EXAMINATION/TEST	FEE (RM)
6	Small Animal Liver Panel: Albumin (ALB) Alanine Aminotransferase (ALT) Alkaline Phosphatase (ALP) Aspartate Aminotransferase (AST) Bilirubin Direct (DBIL) Bilirubin Total (TBIL) Globulin (G) = TP - ALB Indirect (Unconjugated) Bilirubin = TBIL - DBIL Total Protein (TP)	Please contact direct to lab
7	Small Animal Renal Panel: Albumin (ALB) Chloride (CL) Creatinine (CREA) Globulin (G) = TP - ALB Phosphate (PHOS) Potassium (K) Sodium (NA) Total Protein (TP) Urea	Please contact direct to lab
8	Total Protein Panel: Albumin (ALB) Globulin (G) = TP - ALB Total Protein (TP)	Please contact direct to lab
9	Lipid Profile: Cholesterol (Chol) High-Density Lipoprotein (HDL) Low-Density Lipoprotein (LDL) Triglyceride (TGL)	Please contact direct to lab
10	Coagulation - Activated Partial Thromboplastin Time (APTT) - Prothrombin Time (PT) - Fibrinogen	Please contact direct to lab

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11	Cross Matching 1 Recipient 1 Donor, 2 Donors 1 Recipient 3 Donors, 4 Donors	Please contact direct to lab
12	Haematology: Full Blood Count - Complete Haemogram - Complete Haemogram (Avian/Reptile) Haematology: Individual Test - Haematocrit (PCV) & Plasma Protein - Leukocyte (WBC) & 5 part differential count - Blood Smear Examination - Reticulocytes Count	Please contact direct to lab
13	Urinalysis - General Examination (Physical, chemical and microscopic) - Bence Jones Protein - Urine creatinine - Urine Protein - Urine Urea	Please contact direct to lab
14	Cytology - Slide staining (for each specimen (e.g. tissue/fluid): 1 to 5 slides 6 to 10 slides - Additional slides	Please contact direct to lab
	Fluid Dipstick Test (For each specimen)	Please contact direct to lab
	- Microscopic Examination for each specimen (tissue/fluid) *No limit of slides per specimen	Please contact direct to lab
	- Picture - For every 2-4 images	Please contact direct to lab