VETERINARY LABORATORY SERVICES UNIT DEPARTMENT OF VETERINARY LABORATORY DIAGNOSTICS FACULTY OF VETERINARY MEDICINE, UPM

SPECIMENS SUBMISSION FOR CLINICAL PATHOLOGY LABORATORY								
SPECIMEN TYPE	TEST	SPECIMENS VOLUME	CONTAINER	REMARKS	TAT (Working days)	CHARGE (RM)		
Serum, plasma	Biochemistry: Albumin Globulin Ratio (Estimated) Albumin (ALB) Alkaline Phosphatase (ALP) Alanine Aminotransferase (ALT) Amylase (AMY) Aspartate Aminotransferase (AST) Calcium (CA) Chloride (Cl) Cholesterol (CHOL) Creatine Kinase (CK) Creatine Kinase (CK) Creatinine (CREA) Direct (Conjugated) Bilirubin (DBIL) Gamma-Glutamyl Transferase (GGT) Globulin (G) (Estimated) Glucose (GLU) High-Density Lipoprotein (HDL) Indirect (Unconjugated) Bilirubin (Estimated) Lactate (LAC) Lactate Dehydrogenase (LDH) Lipase (LIP) Low-Density Lipoprotein (LDL) Phosphate (Phos) Potassium (K) Sodium (Na) Total Bilirubin (TBIL) Total Protein (TP) Triglycerides (TGL) Urea Uric Acid (UA)	> 50uL for each test To request 1-3 test/s, need to submit more than 150ul	- serum Heparin tube, (green cap), EDTA tube,	 Separate the serum from the blood (allows the blood to clot at room temperature for at least 30 minutes before centrifuge at 5000 rpm for 5-10 minutes). If the serum has not been separated upon submission, do not FREEZE the specimens (do not keep it in the freezer OR direct contact with ice upon delivery using ice box). Keep the serum (after separation) in the FREEZER. (-20^oC). Note: Plasma from EDTA tube are unsuitable for K and Ca analysis. **Note: For glucose, blood sample in plain tube, serum must be separated within 2 hours of blood collection, or else must use Sodium Flouride tube. *For biochemistry panel price, please refer VLSU Fee Schedule. *For research purpose and other specimen type, refer to Appendix I. 	1-2 days	FOC 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 FOC 10.20 FOC 10.20 FOC 18.40 18.40 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20		

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Whole blood	Coagulation: Prothrombin Time (PT) Activated Partial Thromboplastine Time (APTT) Fibrinogen (Estimated)	>500uL	Sodium Citrate tube (blue cap)	 Fill the tube and gently invert the mixture 8-10 times. Fresh samples should be submitted (<6 hours after withdrawn from the blood vessel). For delayed submission (< 24 hours), keep the specimens cool (4°C - 8°C). Do not freeze the specimens OR direct contact with ice upon delivery using ice box. 	1-2 days	18.40 18.40 11.80			
	Cross Matching: 1 Recipient 1 Donor, 2 Donors 1 Recipient 3 Donors, 4 Donors	>500uL	EDTA tube (purple cap)	 Fill the EDTA tube and gently invert the mixture 8-10 times. Fresh samples should be submitted (<6 hours after withdrawn from the blood vessel). For delayed submission (< 24 hours), keep the specimens cool (4°C - 8°C). Do not freeze the specimens OR direct contact with ice upon delivery using ice box. 	1-2 days	23.80 47.60			
	Haematology: Complete Haemogram Complete Haemogram (Avian/Reptile) Ind. Test: Haematocrit (PCV) & Plasma Protein (Estimated) Ind. Test: Reticulocytes Count (Estimated) Ind. Test: Fibrinogen (Estimated)	>500uL		 Fill the EDTA tube and gently invert the mixture 8-10 times. Fresh samples should be submitted (<6 hours after withdrawn from the blood vessel). For delayed submission (< 24 hours), keep the specimens cool (4°C - 8°C). Do not freeze the specimens OR direct contact with ice upon delivery using ice box. 	1-2 days	30.20 40.00 11.80 9.80 11.80			

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SPECIMEN TYPE	TEST	SPECIMENS VOLUME	CONTAINER	REMARKS	TAT (Working days)	CHARGE (RM)		
Faeces	Faecal Examination: General Examination Occult Blood Trypsin	Approximately 10 gram	Sterile universal container/ sample bag	 Collect fresh faeces from the rectum or cloaca using a sterile or clean container. 	1-2 days	20.00 18.40 18.40		
Urine	Urinalysis: General Examination Bence Jones Protein	Minimum 1 ml Minimum 1 ml	Sterile universal container/tube	• Less than 24-hours urine sample only, refrigerate during collection.	1-2 days	16.00 10.20		
	Urine Protein Creatinine Ratio	Minimum 500uL	Sterile universal container/tube	 Less than 24-hours urine sample only, refrigerate during collection. 	1-2 days	20.40		
	Cytology:							
FNA or impression smear sample Fluid	Slide staining (for each specimen (eg. tissue/fluid)): - 1 to 5 slides - 6 to l0 slides - Additional slides	Minimum 1 slide	Thin smear on glass slide			10.00 20.00 2.00/slide		
	Fluid Dipstick Test (for each specimen)	Minimum 1 ml		• Ensure all specimens are clearly labelled.	5 days	10.00		
	Microscopic Examination for each specimen (tissue/fluid) *No limit of slides per specimen		container/tube			35.00		
	Picture (for every 2-4 images)					8.00		