# A*STAR Integrated Central Operations & Research Enablers (iCORE) Histopathology Laboratory
# Animal Clinical Pathology Frequently Asked Questions

1. **What services are available under Animal Clinical Pathology?**
   a. Clinical chemistry
   b. Hematology
   c. Urine analysis

2. **What equipment is used for analysis?**

| Clinical Chemistry | Haematology | Urine Analysis |
|---|---|---|
| Roche cobas c 111 | Sysmex XN-1000 | Uri-Trak 120 (Strip Analysis) |

3. **What parameters are available for analysis?**

| Clinical Chemistry | Haematology | Urine Analysis |
|---|---|---|
| • Glucose<br>• Urea<br>• Creatinine<br>• Total Protein<br>• Albumin<br>• Alanine Aminotransferase (ALT)<br>• Aspartate Aminotransferase (AST)<br>• Alkaline Phosphatase (ALP)<br>• Bilirubin (Direct)<br>• Bilirubin (Total)<br>• Triglycerides<br>• Total Cholesterol<br>• HDL Cholesterol<br>• LDL Cholesterol<br>• Creatinine Kinase (CK)<br>• Lactate Dehydrogenase (LDH) | • Haematocrit<br>• Haemoglobin concentration<br>• Total erythrocyte count<br>• Reticulocytes count<br>• Total leucocyte count<br>• Differential leucocyte count<br>• Platelet count | • pH<br>• Specify Gravity<br>• RBCs<br>• Leukocytes<br>• Nitrite<br>• Urobilinogen<br>• Protein<br>• Ketone<br>• Bilirubin<br>• Glucose |

4. **What is the minimum volume of sample required?**

| Clinical Chemistry | Haematology | Urine Analysis |
|---|---|---|
| 50µL dead volume + X µL per parameter. *Please kindly email to enquire the exact volume of sample required.* | • 70µL<br>• 20 µL for dilution mode *(Please email for more details.)* | 300µL |

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**5. What sample type can be analyzed?**

| Clinical Chemistry | Haematology | Urine Analysis |
|---|---|---|
| • Serum<br>• Plasma<br>• Urine (selective parameters) | • Whole blood collected in EDTA<br>• Body fluids: CSF, BALF and peritoneal fluid | • Urine |

**6. What species are supported?**

| Clinical Chemistry | Haematology | | Urine Analysis |
|---|---|---|---|
| • Rodents<br>• Domestic Animals<br>• Marine Animals | • Mouse<br>• Rat<br>• Dog<br>• NHP<br>• Rabbit<br>• Cat<br>• Horse<br>• Cattle<br>• Pig<br>• Mini. Pig | • Guinea Pig<br>• Gerbil<br>• Ferret<br>• Marmoset<br>• Sheep<br>• Goat<br>• Camel<br>• Hamster<br>• Dolphin<br>• Bird | • Rodents<br>• Domestic Animals |

**7. Do you provide animal clinical pathology evaluation? If yes, what does the report contain?**

Yes, we provide animal clinical pathology evaluation report but only for the laboratory animals. It contains individual animal data, standard control values, evaluation of the result and conclusion.

**8. Do I need to book a slot for analysis?**

We aim to perform the analysis on the day of sample submission, hence it is recommended to contact us prior to submission to confirm the following:

a. Date and time of submission
b. Availability of parameters
c. Volume of samples required.

**9. Who is the contact at iCORE Pathology?**

Please email Ms. Xuefang at sfpoh@a-star.edu.sg.
Alternatively, you may email AMPL at iCOREPath@a-star.edu.sg or call the lab at 6586 9629.