Turun yliopisto
University of Turku

UTUCAL
UNIVERSITY OF TURKU CENTRAL ANIMAL LABORATORY

"for versatile and clinically relevant research results"

UTUCAL clinical laboratory in compliance with Good Laboratory Practice (GLP)

Our laboratory offers hematology, clinical chemistry, coagulation factors, urine analyzes and consultation services for rodents and other laboratory animals.

Good Laboratory Practice (GLP)

UTUCAL is the only Finnish university-based test facility that operates in compliance with the OECD Principles of Good Laboratory Practice (GLP) and EU Directive 2004/10/EC. It is included in the National GLP Compliance Programme in Finland and inspected on regular basis by FIMEA.

HEMATOLOGY

- Samples are analyzed by VetScan HM5 hematological analyzer.
- Minimum required sample volume: 100 µl EDTA-blood

CLINICAL CHEMISTRY

- Samples are analyzed by VetScan VS2 analyzer.
- Sample volume 100 µl / sample profile.
    - Serum, Li-heparin whole blood or Li-heparin plasma

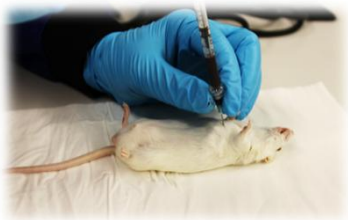
COAGULATION ANALYZES

- Required sample volume: 500 µl citrate plasma

URINE ANALYSIS

- Metabolic cages are available for urine collection

★ All our laboratory analyzes are validated to fulfill the requirements of the Good Laboratory Practice.



More information about parameters is presented on the next page.

Clinical veterinarian (Emrah Yatkin, emryat@utu.fi) is available for consultation.

For more information about laboratory analysis, sampling and inquiries please contact Medical Laboratory Technologist Joonas Khabbal (joonas.khabbal@utu.fi) or Research Coordinator Ella Kyläinpää (elmaky@utu.fi).

Parameters for clinical chemistry:

Most commonly used profile is Comprehensive Diagnostic Profile which contains following parameters:
ALB , ALP, ALT, AMY, BUN, CA, CRE, GLOB, GLU, K+, NA+, PHOS, TBIL, TP

Other available profiles:
Prep Profile (6 P): ALP, ALT, BUN, CRE, GLU, TP
Critical Care Profile: ALT, BUN, CL-, CRE, GLU, K+, NA+, tCO2
T4/Cholesterol Profile: T4/CHOL
Mammalian Liver Profile: ALB, ALP, ALT, BA, BUN, CHOL, GGT, TBIL

All parameters:
ALB (Albumin), ALP (Alkaline Phosphatase), ALT (Alanine aminotransferase), AMY (Amylase), AST (Aspartate aminotransferase), BA (Bile acids BUN (Blood Urea Nitrogen (urea)), CA (Total Calcium), CL^- (Chloride), CHOL (Total Cholesterol), CK (Creatine Kinase), CRE (Creatinine), GGT (Gamma Glutamyl Transferase), GLOB (Globulins), GLU (Glucose), Mg (Magnesium), K^+ (Potassium), PHOS (Phosphorus), NA^+ (Sodium), TBIL (Total Bilirubin), TP (Total Protein), tCO_2 (Total Carbone Dioxide), T4 (Thyroxine), UA (Uric Acid)

Parameters for hematology (Complete Blood Count, CBC):

WBC (White Blood Cells), RBC (Red Blood Cells), HGB (Hemoglobin), HCT (Hematocrit), MCV (Mean Cell Volume), MCH (Mean cell hemoglobin), MCHC (Mean Corpuscular Hemoglobin Concentration), RDWc (Red Cell Distribution Width %), RDWs (fL), PLT (Platelets), PCT (Plateletcrit), MPV (Mean Platelet Volume), PDW (Platelet Distribution Width), lymphocytes (absolute # and % relative counts), monocytes (# and %), granulocytes (# and %)

In addition, microscopic evaluation of differential white blood cell count can be performed.

Parameters for coagulation analyses

PT (Prothrombin Time), APTT (Activated Partial Thromboplastin Time)

Parameters for urine analysis:

Specific gravity, pH, leukocytes, nitrite, protein, glucose, ketone, uribilinogen, bilirubin, erythrocytes