Model Name
Hematology, Blood Chemistry, Serum

Item Number
547550

Introduction
The Toshiba TBA-120-FR is an automated chemistry analyser with 800 tests/hour throughput is unique with separate compartment for R1 and R2 and can accommodate 112 bottles together which is the highest in this segment.

Procedure Summary
Groups of 6 ICR derived male mice are used. Test substance and/or vehicle are administered daily for 7 consecutive days (or based on request) to groups of 6 ICR derived male mice weighing 22 ± 2 g. Blood sample is obtained from each overnight-fasted test animal on Day 8. The levels of serum lactate dehydrogenase (LDH), albumin (ALB), amylase (AMY), aspartate aminotransferase (AST), alanine aminotransferase (ALT), blood urea nitrogen (BUN), total cholesterol (Total), creatinine (CRE), glucose (GLU) and triglyceride (TG) as well as the levels of serum electrolytes of sodium (Na+), potassium (K+) and chloride (Cl-) are determined by colorimetric method as identified as below via the automatic analyzer (TBA-120-FR , Toshiba, Japan). Values are present as mean ± SEM and unpaired Student's t test is applied for comparison between vehicle and compound-treated groups. Differences are considered significant at P<0.05.

Suggested Testing
• n=6/group (study design dependent)
• Doses may be administered PO, IV, IP and SC

Turnaround Time(s)
• For Acute Assays: 4 weeks from sample receipt
• For Subacute Assays: 6 weeks to 3 months

Literature
Henry JB. Clinical Diagnosis and Management by Laboratory Methods. 16:858, 1979

Related Assay(s)  (Item # - Assay Name - Species)
N/A

Modified Protocols
We will readily accommodate client-specified alterations.

Laboratory
These assays are performed at our AAALAC accredited laboratory in Taipei.

Animal Welfare
All aspects of this work is performed in general accordance with the Guide for the Care and Use of laboratory animals (National Academy Press, Washington, DC, 2011). The study protocol was approved by the Pharmacology Discovery Services IACUC and is performed with the oversight of veterinarians to assure the humane treatment of laboratory animals.

Reference Compound(s)
N/A

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