

紐西蘭白兔血液生理生化值檢測

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摘要

本研究目的係調查檢定分所生產飼養之紐西蘭白兔血液生化參數，自 101 年至 103 年間取樣 2~3 月齡無特定病原兔共 48 隻及 106 至 107 年間取樣 2~3 月齡生醫用清淨兔 33 隻血液樣本，進行血液常規學檢查(包括紅血球、白血球、血小板、血紅素、血球容積、平均紅血球容積、平均紅血球血紅素量、平均紅血球血紅素濃度)及部分血液生化值檢測(包括血糖、天門冬胺酸轉胺酶、丙氨酸轉胺酶、鹼性磷酸酶、蛋白質、血中尿素氮、肌酸酐、尿酸、澱粉酶、膽固醇、三酸甘油脂、乳酸脫氫酶、肌酸磷酸激酶、鈉、鉀、氯、鈣、錳)，期能作為國內紐西蘭白兔血液生理生化值基礎資料之參考。

Values of hematological and biochemical parameters in New Zealand white rabbits

Cheng-Hsueh, Wu

Abstract

The aim of this study was to establish reference values of hematological and biochemical parameters in New Zealand white rabbits within the animal drugs inspection branch of the Animal Health Research Institute (AHRI) of Taiwan. From 2012-2014, blood samples were collected from a total of 48 specific pathogen free (SPF) New Zealand white rabbits (2-3 months old), whereas from 2017-2018, 33 conventional New Zealand white rabbits blood samples were collected and analyzed. Blood samples were tested for: red blood cells (RBC), white blood cells (WBC), platelets (PLT), hemoglobin (Hgb), hematocrit (HcT), mean corpuscular volume (MCV), mean corpuscular hemoglobin (MCH), and mean corpuscular hemoglobin concentration (MCHC). Serum samples were tested for: glucose, aspartate aminotransferase (GOT), alanine aminotransferase (ALT), alkaline phosphatase (ALP), total protein (TP), blood urea nitrogen (BUN), creatinine, uric acid, amylase, cholesterol, triglycerides, lactate dehydrogenase (LDH), creatine phosphokinase (CPK), sodium, potassium, chloride, calcium, magnesium and phosphorus. The data collected in this study can thus be used as reference biochemical parameters for New Zealand white rabbits.