

Analysis of Blood Biochemical Parameters in Lanyu pigs ⁽¹⁾

Sheng-Yang Wu ⁽²⁾ and Chia-Chieh Chang ^{(2) (3)}

Received: Sep. 4, 2016; Accepted: Apr. 2, 2018

This assay was aimed to examine the blood biochemical values in the Lanyu pigs, so as to provide the reference data for experiments on minipigs animals. Twenty biochemical blood values in Lanyu pigs were measured using automatic biochemical analyzer. The differences between sexes, and two age groups were analyzed. The results showed that among the blood biochemical values, only Mg and P showed significant difference between male and female Lanyu pigs at 3 month old ($P < 0.05$). ALT, ALP, GLU, CHOL, BUN, CREAT, Mg, Na, Cl and Ca showed significant difference between male and female Lanyu pigs at 6 month old ($P < 0.05$). The other values were not different between the genders. The results showed among the blood biochemical values, ALT, LDH, ALB, TP, TG, CHOL, BNU, Mg, Na, Cl, Ca and P showed significant difference between 3 and 6 month old in male Lanyu pigs ($P < 0.05$). Only ALP, GLU, TP, TG, Ca and P showed significant difference between 3 and 6 month old in female Lanyu pigs ($P < 0.05$). Nine observed values of twenty biochemical blood in Lanyu pigs were the same as for human beings. The comparison of blood biochemical values would be helpful in establishing the biological database of minipigs bred.

Key words: Lanyu pig, Biochemical values, Blood.

(1) Contribution No. 2583 from Livestock Research Institute, Council of Agriculture, Executive Yuan.

(2) Taitung Animal Propagation Station, COA-LRI, Taitung 95444, Taiwan, R. O. C.

(3) Corresponding author, E-mail: janices@mail.tlri.gov.tw.