

Vanida Chaichana 2007: Effects of Dietary Selenomethionine Supplementation on Quality of Boars Semen. Master of Science (Agriculture), Major Field: Animal Science, Department of Animal Science. Thesis Advisor: Associate Srisuwan Chomchai, M.S. 64 pages.

The experiment was conducted to determine the effects of selenomethionine on improvement quality of boars semen. Fifteen duroc boars, 26 months of age, were allocated randomly into 3 treatments of 0, 0.2, 0.3 ppm. of selenomethionine for 150 days. The results showed that the boars treated 0.2 and 0.3 ppm. of selenomethionine in diet were significance higher ( $P < 0.05$ ) color, sperm motility, motile sperm, live sperm and lower sperm abnormality than control group but semen volume, sperm concentration and pH were not significant difference ( $P > 0.05$ ). There were no interaction between treatment and period of time on quality of boars semen in each group. There were statistically significant different ( $P < 0.05$ ) of selenium concentration in blood between the boars fed diet supplemented selenomethionine and control group.

V. Chaichana

Student's signature

S. Chomchai

Thesis Advisor's signature

25, 05, 2007