

Patchamon Jaifung 2007: Effects of Gentamycin Neomycin and Ammoxycillin in Semen Extender on Quality of Boar Semen and Production Cost. Master of Science (Agriculture), Major Field: Animal Science, Department of Animal Science. Thesis Advisor: Associate Professor Srisuwan Chomchai, M.S. 70 pages.
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An experiment was conducted to investigate effect of different antibiotics in semen extender on quality of boar semen and production cost. Individual semen collection from six boars was diluted in BTS extender. Each semen collection was divided into six groups; group 1 control (BTS extender without antibiotic), group 2 BTS extender with gentamycin, group 3 BTS extender with neomycin, group 4 BTS extender with amoxicillin, group 5 BTS extender with gentamycin and neomycin, and group 6 BTS extender with gentamycin and amoxicillin. Each dilution was kept for semen quality examination at day 0, 1, 2 and 3 of storage time.

The results showed that BTS extender with neomycin (group 3) had significantly differences higher ($P<0.01$) motile sperm and live sperm than the other groups. There were statistical significantly differences ($P<0.01$) of motile sperm live sperm abnormal morphology and abnormal acrosome due to storage time. The BTS extender with antibiotics (group 2 to 6) had lower bacteria colonies than control group (group 1) ($P<0.01$). At day 3 of storage time, BTS extender with neomycin had significantly lower bacteria colonies than control group and extender with amoxicillin ($P<0.01$). Control group (group 1) had lower in production cost than the other groups.

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Student's signature

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