## Comparative Studies of Meat Qualities of *longissimus dorsi*Muscles in Barrow, Gilt and Boar Pigs.

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This study was carried out to investigate carcass traits and meat qualities of longissimus dorsi Muscles in Barrow, Gilt and Boar Pigs. A total 330 porks were normally slaughtered. After muscles were stored for 24hr at 4±1°C postmortem storage, carcass weight, backfat thickness, carcass length, 5th loin area were measured. Also *M. longissimus dorsi*(LD) muscle of the carcasses was selected based on sex and L\*-value and meat quality measurements. Live weight means was  $106\pm8.90$ kg, each of backfat thickness, carcass weight, carcass length and 5th loin area was  $2.89\pm0.66$ cm,  $82.57\pm6.93$ kg,  $86.76\pm5.79$ cm and  $24.09\pm5.08$ cm². There was no significant difference in backfat thickness and carcass weight by sex, but live weight and 5th loin area by boar were 110.30kg and 27.25cm². These results were significantly different in gilt and barrow. The distribution between carcass weight and backfat thickness was 28.48% in  $2.5\sim3.0$ cm of backfat thickness, between 75kg and 80kg of carcass weight showed 28.2% in total. Pork retail cut meats of boar in ham, boston butt and ribs seemed to be better than those of gilt and barrow. pH<sub>24</sub> of barrow, gilt and boar in meat quality traits of pork loin muscles by sex were 5.54, 5.61 and 5.79, respectively in average.