

**GROWTH PERFORMANCE, MEAT PRODUCTIVITY AND
QUALITY OF PIC280 x [LANDRACE x (DUROC x VCN-MS15)]
AND PIC399 x [LANDRACE x (DUROC x VCN-MS15)]
CROSSBRED PIGS RAISED IN THUA THIEN - HUE
PROVINCE**

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Summary

The objective of this study was to study growth performance, meat productivity and quality of PIC 280 x [Landrace x (Pietrain x VCN-MS15)] and PIC 399 x [Landrace x (Duroc x VCN-MS15)] crossbred pigs raised in Thua Thien - Hue province. The experiment was done on 36 crossbred pigs of 60 days old with a completely randomized design (18 pigs containing 9 castrated males and 9 females/crossbred pig genotype). All pigs were penned individually in open housing, fed *ad libitum* twice daily at 8h and 16h30 with the same diets according to different growing phases and accessed fresh water freely. The trial lasted for 90 days (from 60-150 days old) to evaluate growth performance. After finishing the experimental period, 6 pigs (3 males and 3 females)/each crossbred genotype with average body weights of 96.60 kg/pig were slaughtered to evaluate the meat productivity and and collected samples of Longissimus dorsi muscle between 10-14th ribs to analyse meat quality. Results showed that crossbred pigs of PIC280 x [Landrace x (Pietrain x VCN-MS15)] and PIC399 x [Landrace x (Duroc x VCN-MS15)] had high average daily weight gain of 775.31 and 827.50 g/day ($P < 0.05$), low feed conversion ratio of 2.56 and 2.53 kg feed/1 kg weight gain ($P > 0.05$), dressing percentage 78.76 and 78.95%, carcass percentage 71.59 và 71.84% and lean meat percentage 58.92% and 60.57% ($P > 0.05$), respectively. The meat quality indicators including pH values, color, drip loss, cooking loss, shear force value, chemical composition and content of saturated fatty acids and unsaturated fatty acids of Longissimus dorsi muscle in 2 crossbred pig genotypes of PIC280 x [Landrace x (Pietrain x VCN-MS15)] and PIC399 x [Landrace x (Duroc x VCN-MS15)] were similar and within the scope of accepted meat quality.

Keywords: *Fatty acid composition, growth performance, meat productivity, meat quality, PIC280 x [Landrace x (Duroc x VCN-MS15)], PIC399 x [Landrace x (Duroc x VCN-MS15)].*