

Evaluation of growth hormone genotypes associated with live weight of progeny generation (G1) derived from parental generation (G0) of Indonesian grade cattle

by Hapry Lopian 6

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Effect of growth hormone genotypes associated with the weight of progeny generation (G₂) derived from parental generation (G₁) of Indonesian grade cattle

Umar Pujiatmaja¹, Laksana Makin¹, Gana Givardi¹ and Haryo F. M. Lektor²
¹ Faculty of Animal Science, Sari Wedono (Sriwedono) Subang-07313, Indonesia
² Faculty of Animal Husbandry and Veterinary Medicine, Bogor Agricultural University (IPB), West Java-16129, Indonesia

Abstract

The study was to examine the weight performance of offspring generated from 2000 (F₁) (G₁) of parental generation (G₁) derived from parental generation (G₁) of the Indonesian grade cattle (IGC) with heterozygous genotype (H⁺) and homozygous genotype (H⁰) and F₂ (G₂) of parental generation (G₁) derived from parental generation (G₁) of the Indonesian grade cattle (IGC) with heterozygous genotype (H⁺) and homozygous genotype (H⁰). In addition, the effect of the parental generation (G₁) genotype on the weight performance of the progeny generation (G₂) was also examined. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013.

Key Words: weight gain, growth hormone genotype, Indonesian grade cattle

Introduction
The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin.

Materials and Methods
The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013.

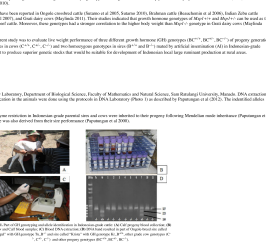


Table 1. Characteristics of the Indonesian grade cattle (IGC) used in the study.

Parameter	Value
Sex ratio (♂/♀)	0.500
Age (years)	2.5
Weight (kg)	100

Experimental set and study layout

The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013. The study was conducted in the Bogor Agricultural University (IPB) from February to June 2013.

Table 2. Summary of experimental results.

Parameter	Value
Weight gain (kg/head/year)	0.5
Conversion rate (%)	10

Management of experimental animals

The management of experimental animals was conducted in accordance with the standards of animal husbandry. The management of experimental animals was conducted in accordance with the standards of animal husbandry. The management of experimental animals was conducted in accordance with the standards of animal husbandry.

Statistical analysis
The data were analyzed using the General Linear Model (GLM) procedure of SAS (2002) with statistical model as follows:

$$Y_{ijkl} = \mu + G_i + P_j + H_k + E_{ijkl}$$

$$Y_{ijkl} = \mu + G_i + P_j + H_k + E_{ijkl}$$

Results

The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁). The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁).

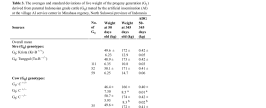


Table 3. Effect of parental generation (G1) genotype on the weight performance of the progeny generation (G2).

Genotype	Weight (kg)
H ⁺	105
H ⁰	95

The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁). The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁).

Table 4. Summary of statistical analysis results.

Parameter	Value
Weight gain (kg/head/year)	0.5
Conversion rate (%)	10

Discussion

The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin. The Indonesian grade cattle is composed of 10 different genotypes of mixed origin.

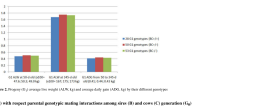


Table 5. Effect of parental generation (G1) genotype on the weight performance of the progeny generation (G2).

Genotype	Weight (kg)
H ⁺	105
H ⁰	95

The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁). The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁).

Table 6. Summary of statistical analysis results.

Parameter	Value
Weight gain (kg/head/year)	0.5
Conversion rate (%)	10

Conclusion

The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁). The results of the study showed that the weight performance of the progeny generation (G₂) was significantly affected by the genotype of the parental generation (G₁).

Acknowledgment

The authors acknowledge to the Bogor Agricultural University (IPB) for providing the facilities and equipment for the study. The authors acknowledge to the Bogor Agricultural University (IPB) for providing the facilities and equipment for the study.

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