

Use of protected sodium butyrate in broilers under antibiotic free production system, a field trial

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Introduction

The current need to produce chickens without antibiotic growth promoters (AGPs) is a major challenge for producers; organic acids have been considered a viable alternative for several years. Because its multiple effects sodium butyrate is an important tool for these systems of production without AGPs, but it needs to be validated on field conditions.

Objective

The aim of this trial was to compare the effect of protected sodium butyrate (Gustor N'RGY) and AGPs on productive parameters in broilers, under field conditions.

Materials and Methods



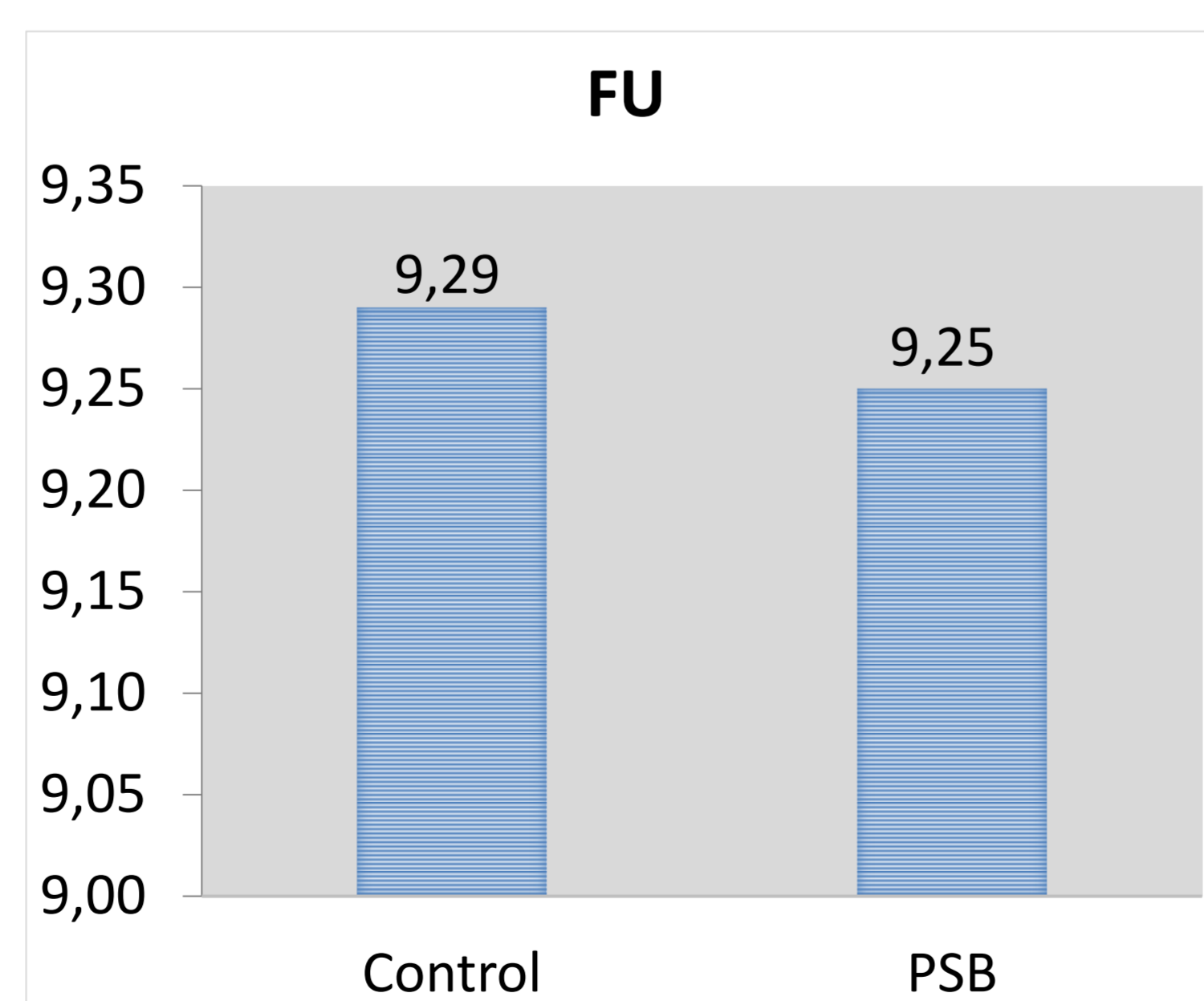
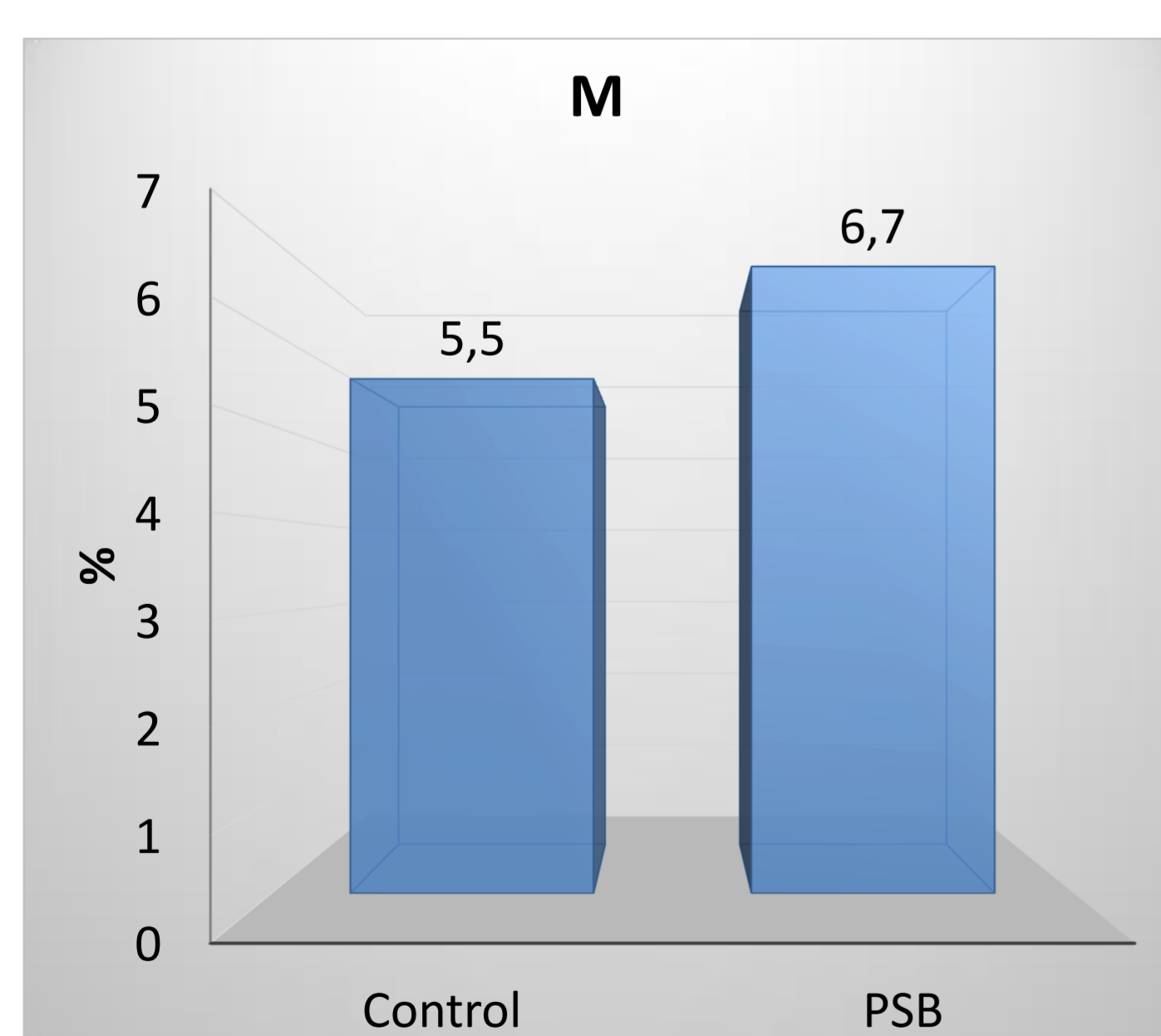
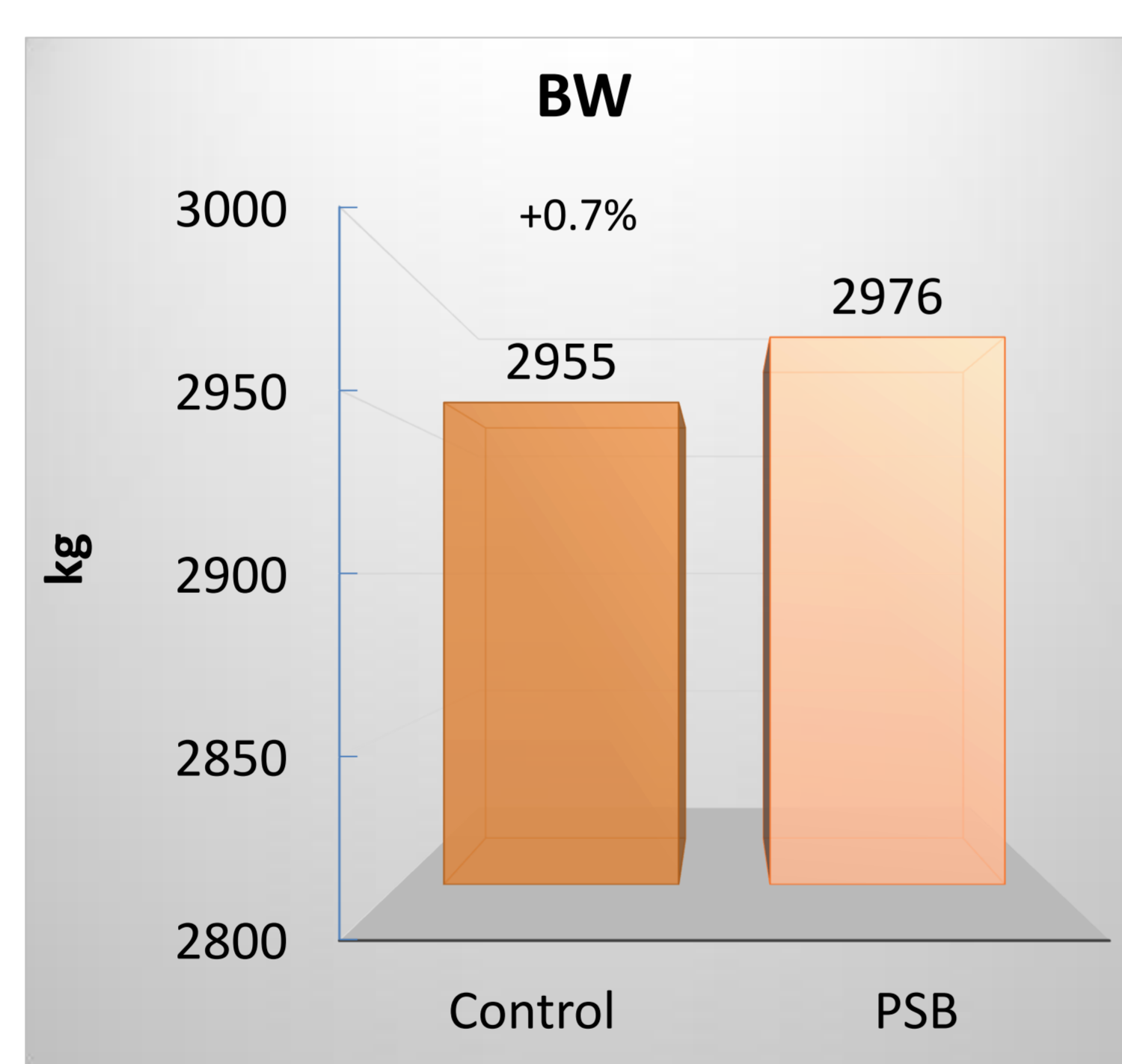
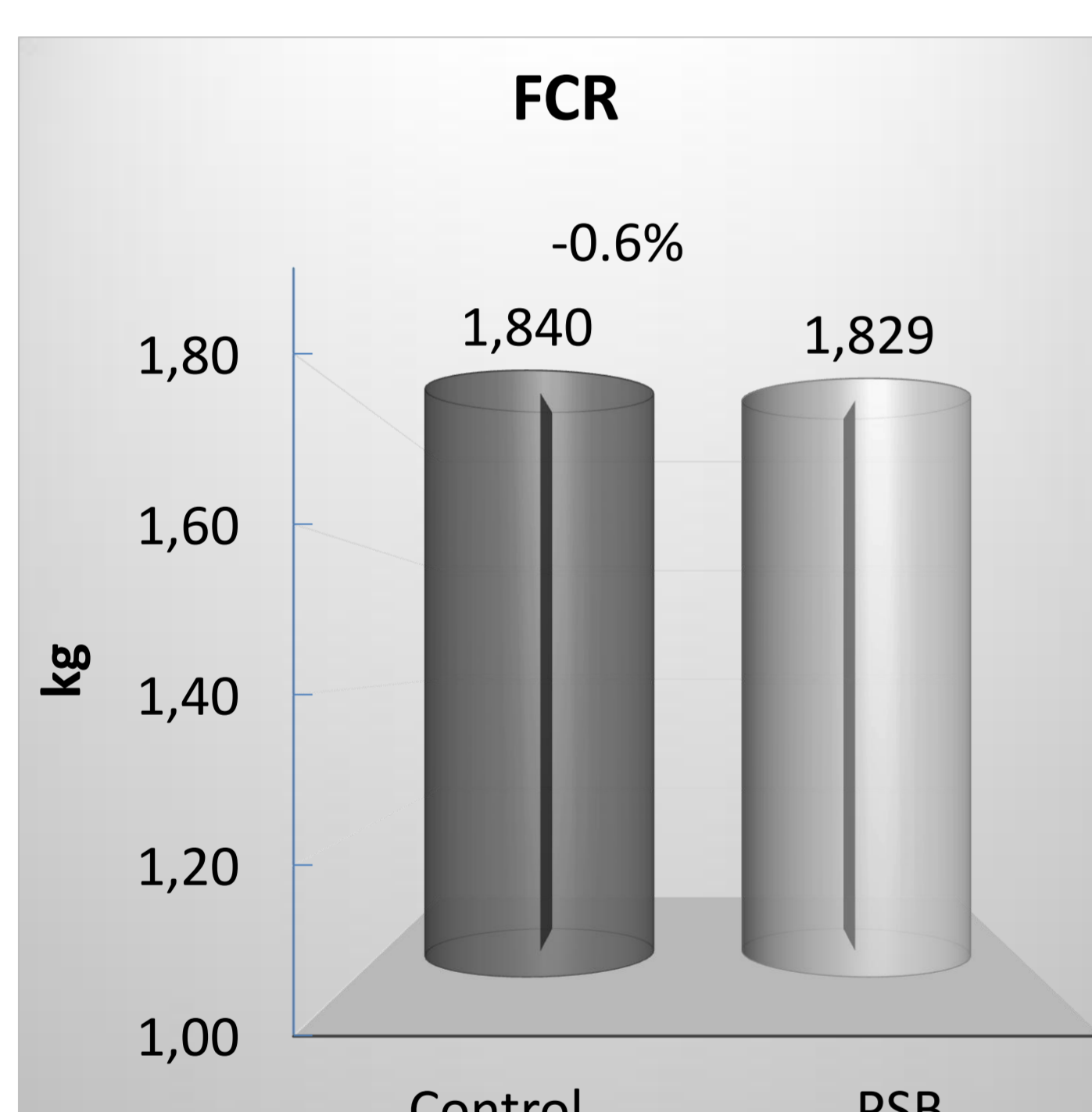
10,000 Ross 308

Control (C): Diet with AGPs (Bacitracin Methylene Disalicylate, Colistin, Halquinol)

Protected Sodium Butyrate (PSB): Diet without AGPs plus Sodium Butyrate (Gustor N'RGY) added at 2 kg/t in all experiment.

- ✓ Experimental period was 50 d
- ✓ Response variables were:
 - Feed intake (FI)
 - Live body weight (BW)
 - Feed Conversion Ratio (FCR)
 - Flock uniformity (FU) = CV of weight
 - Mortality (M)
 - Productivity index (PI)

Results



Feed intake was 5.44 kg for both groups, while PI was similar between treatments (320 vs 325 for C and PSB respectively).

Conclusion

It can be concluded that under the conditions of this trial the use of protected sodium butyrate in broiler diets allows to get similar productive performance than AGPs.