



Assessment of dietary Standardised Citrus Extract supplementation on broiler chicken zootechnical performances and bacterial growth

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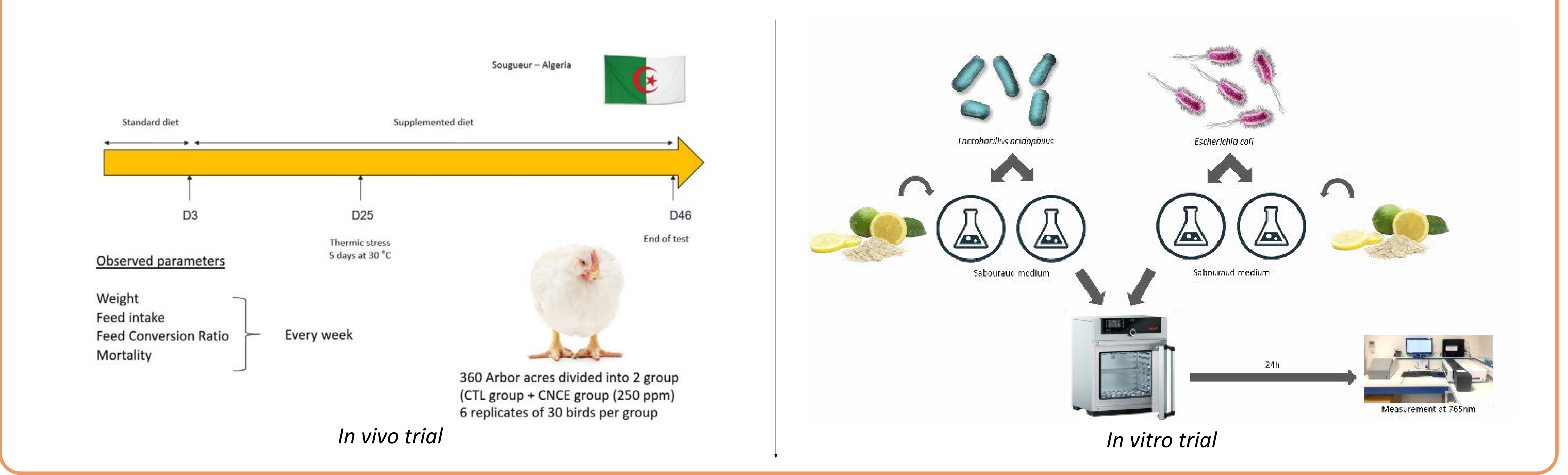


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Introduction

Citrus extracts are increasingly used in poultry production, due to the many advantages they confer to the birds. However, there is a lack of data regarding their mode of action. The aim of this study was to evaluate the effect of a Standardised Citrus Extract (SCE, Nor-Spice® AB, Nor-Feed SAS) on both zootechnical performances of broiler chicken and the growth of several bacterial strains of interest.

Material and methods



Results

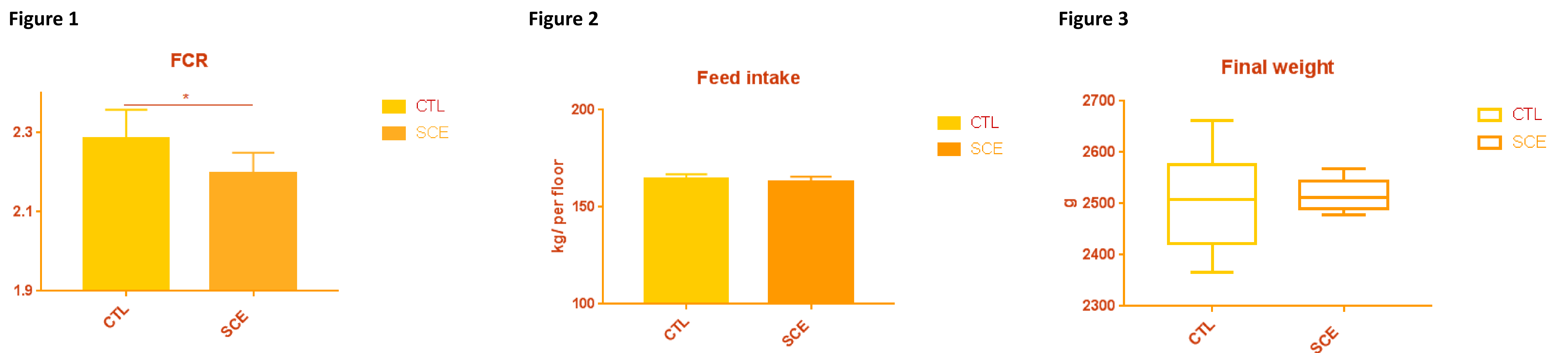


Figure 4
Comparison of *Escherichia coli* evolution kinetics over 20 hours in Sabouraud medium, with or without SCE

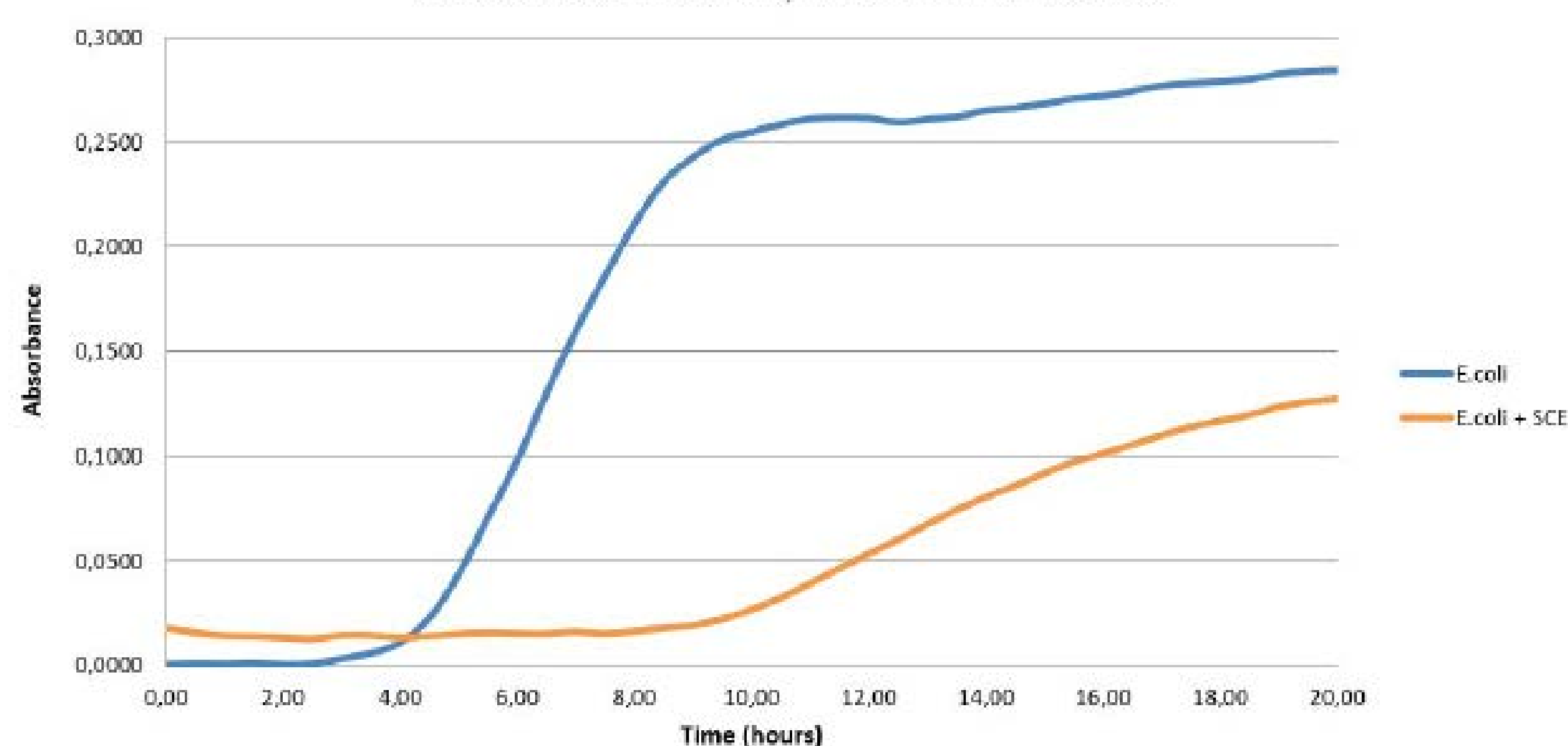
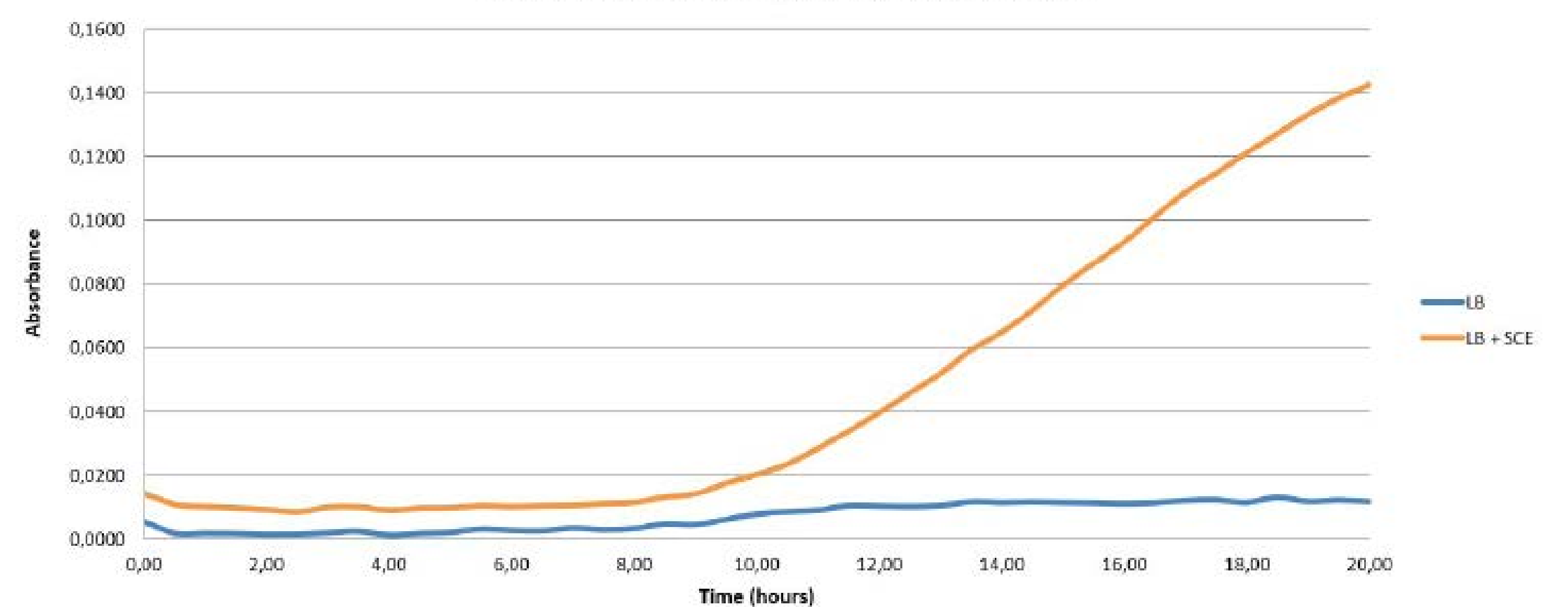


Figure 5
Comparison of *Lactobacillus acidophilus* evolution kinetics over 20 hours in Sabouraud medium, with or without SCE



Conclusion

Dietary supplementation with SCE impacted zootechnical performances such as the FCR and the weight of the chickens when it comes to homogeneity, regarding the in vitro effect, results show that SCE have a positive impact on *Lactobacillus* growth and allow to reduce the increase the doubling time of *E. Coli*.