

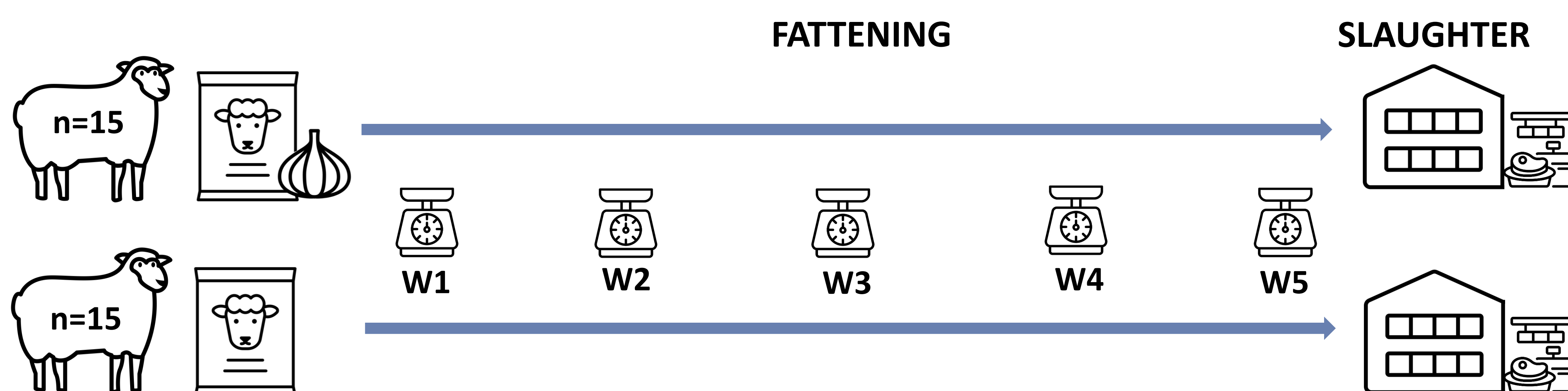
INTRODUCTION

The search for sustainable nutritional strategies in livestock production has promoted the use of agricultural by-products in animal feed. Garlic waste, derived from garlic cultivation, was used in this study due to its recognised antimicrobial, antioxidant and immunomodulatory properties, positioning it as a sustainable alternative for animal nutrition.

OBJECTIVE

The aim of this study was to evaluate the effect of including 4% garlic in the diet of Merino lambs on growth performance and feed efficiency.

MATERIAL & METHODS

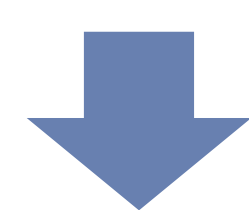


<p>Isoproteic and isoenergetic diets</p>	<p>Lambs weighed weekly</p> <p>Feed intake recorded daily</p>	<p>Weight gain</p> <p>Average daily gain (ADG)</p> <p>Feed intake</p> <p>Feed conversion ratio (FCR)</p> <p></p>
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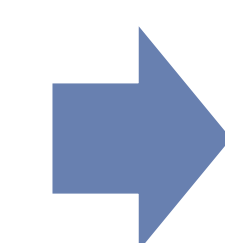
RESULTS & DISCUSSION

Weight gain and ADG in garlic group ($p = 0.023$)

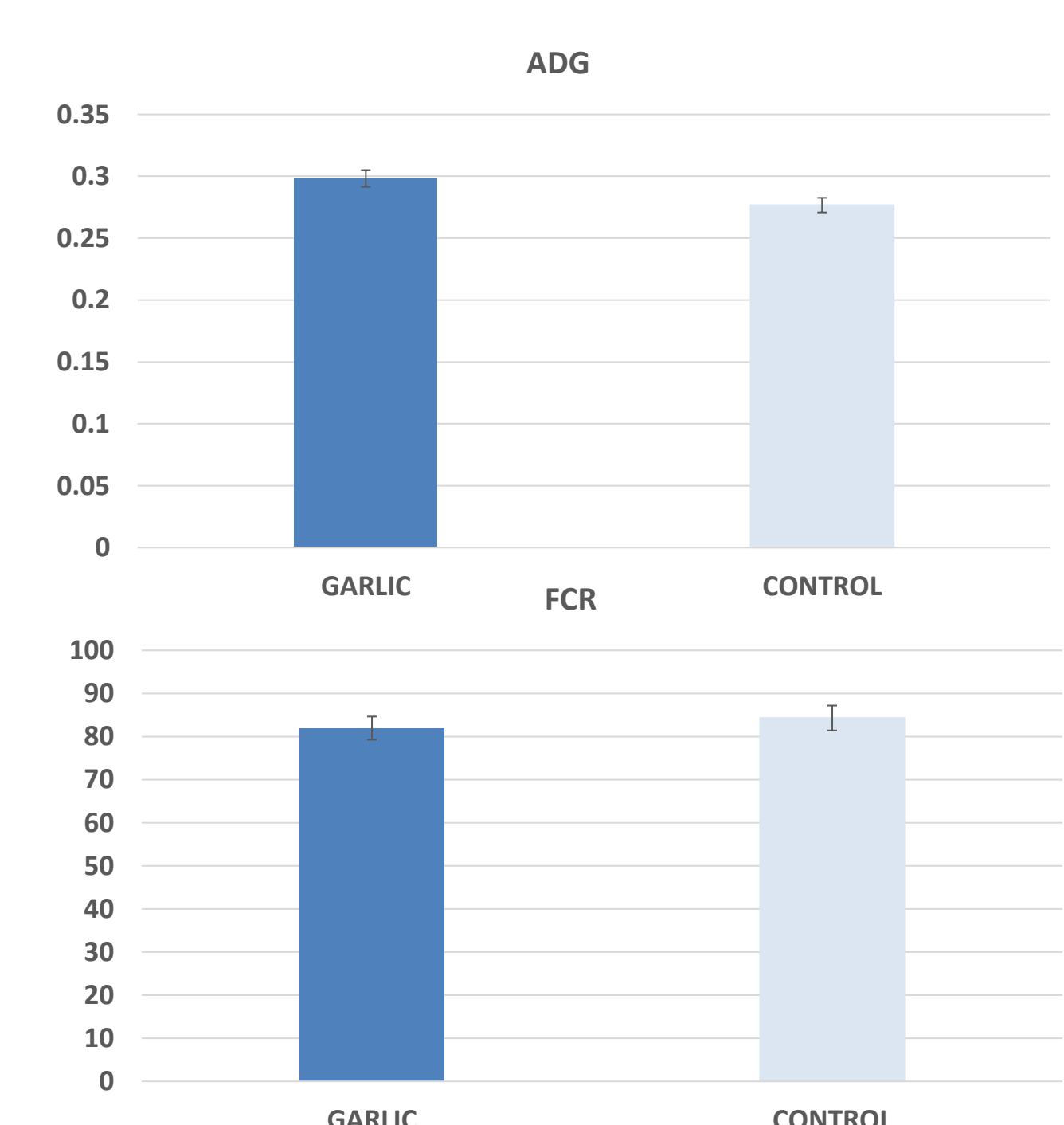
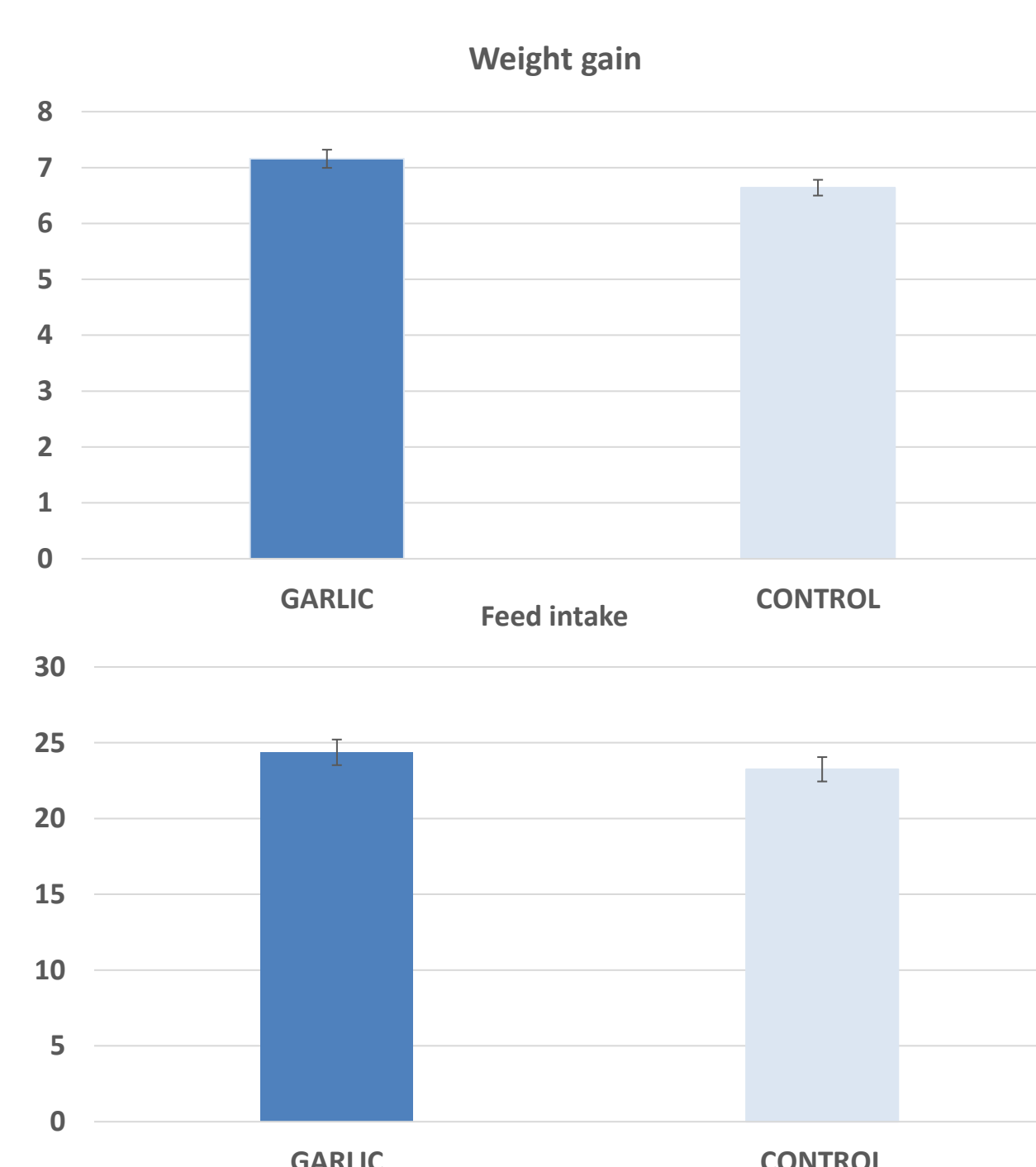
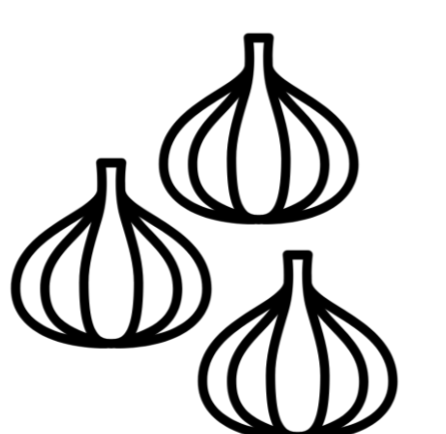
No significant difference in feed intake ($p = 0.472$) or FCR ($p = 0.419$)



Trend toward improved feed efficiency



Gut modulation by garlic → improved digestion and nutrient absorption
 No feed rejection → good palatability and intake maintained



CONCLUSION

These results suggest that the inclusion of 4% garlic in the diet of Merino lambs can improve growth performance without negatively affecting feed efficiency. This study highlights the potential of garlic by-products as a natural and sustainable feed additive in sheep production, supporting more environmentally friendly livestock systems.