



Effects of the increase of the feed alpha-linolenic acid level on the performances of reproduction of the rabbit does

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INTRODUCTION

State of the art → ALA - Omega 3 impacts

Meat quality

Lot of publications → ALA level brought by the extruded flax Tradilin[®] to improve the meat quality of the growing rabbits

Performances of reproduction

Few information → Performances of reproduction of the doe while they are well documented for the sow
→ due to... limited numbers of does ?
omega 3 content in feed diets (alfafa) ?
efficiency of omega 3 in feed diet ?

Objective

Benefits of Tradilin (selected & specifically processed flax) for the rabbit doe ?



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MATERIAL AND METHODS

Trials



3 experimentations involving respectively 57, 310, 410 Hyplus does
→ 777 all together

Experimental's diets



Iso-nutritional diet: Protein (18%), Fiber (15%), Fat (4%) and digestible energy (2500 kcal)
ALA content: 5 % of Omegalest (50% extruded flax Tradilin[®], carob, flax straw)
→ **Control**: 0,09 to 0,16% **Tradilin**: 0,61 to 0,68%

Measured criteria's



Number of artificial inseminations (AI) and of parturitions
Number of rabbits alive at 4 days and at weaning
Weight of the individual rabbits and the total litters at weaning



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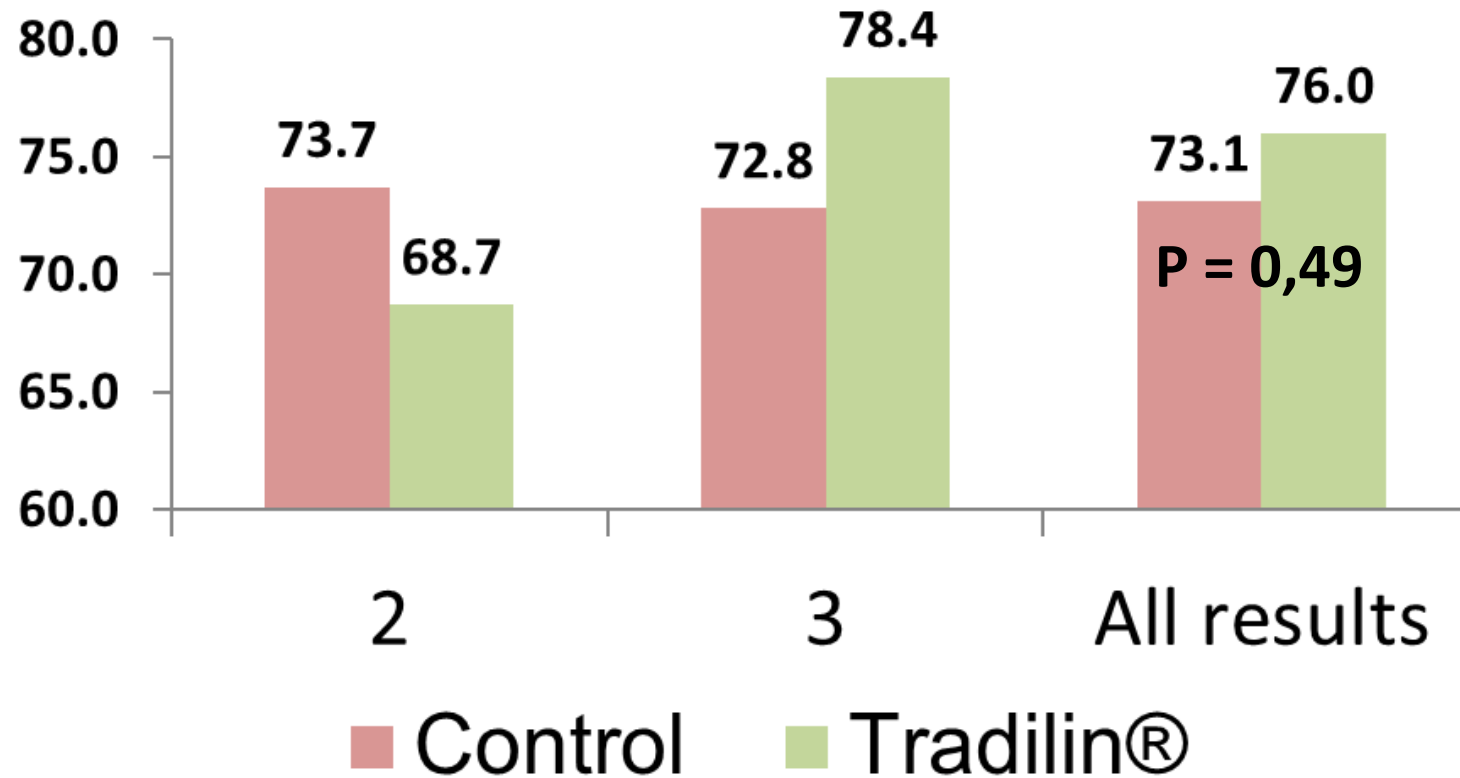
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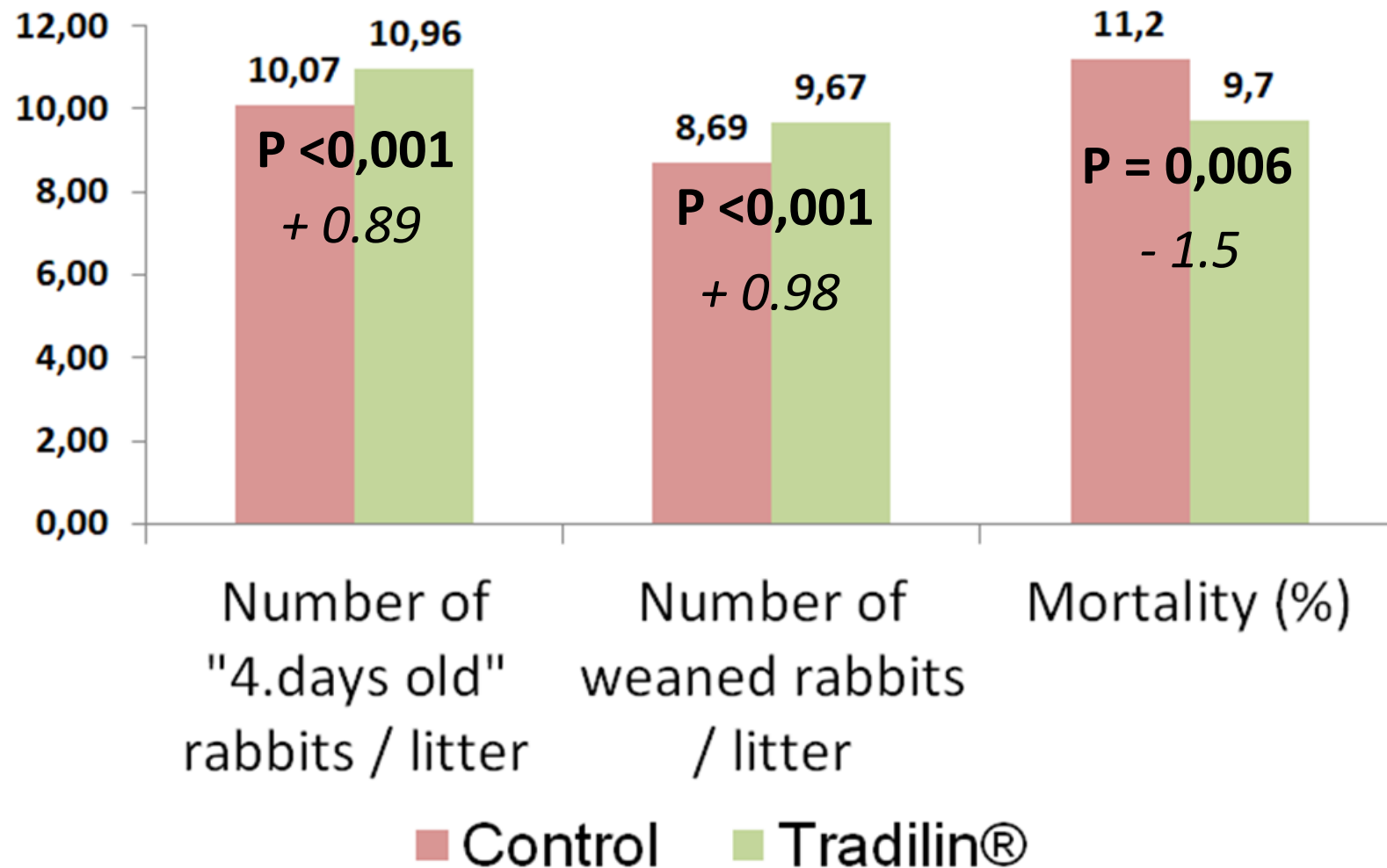


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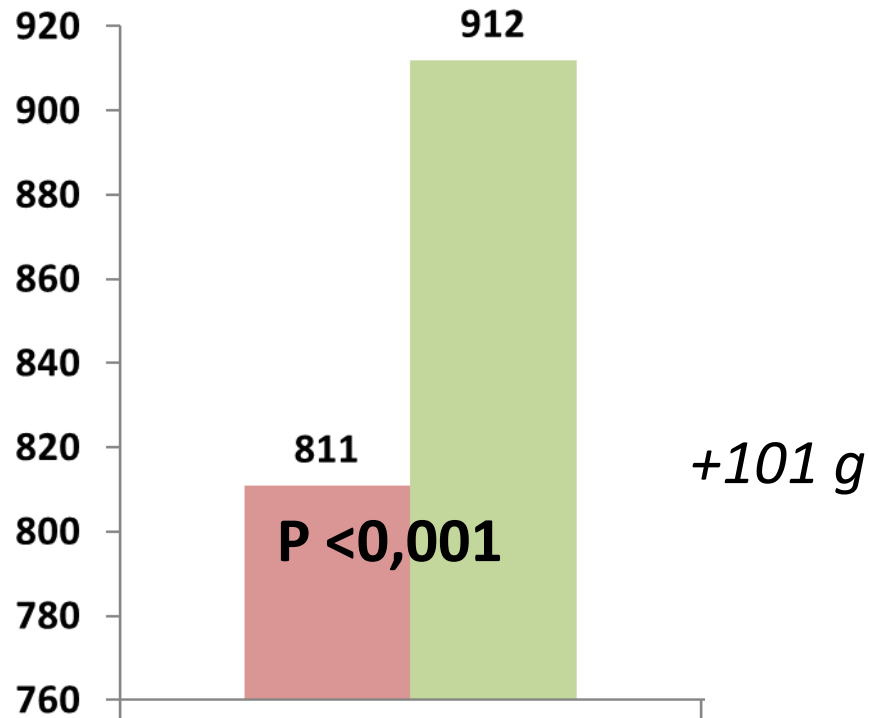
RESULTS: Fertility



RESULTS: Viability

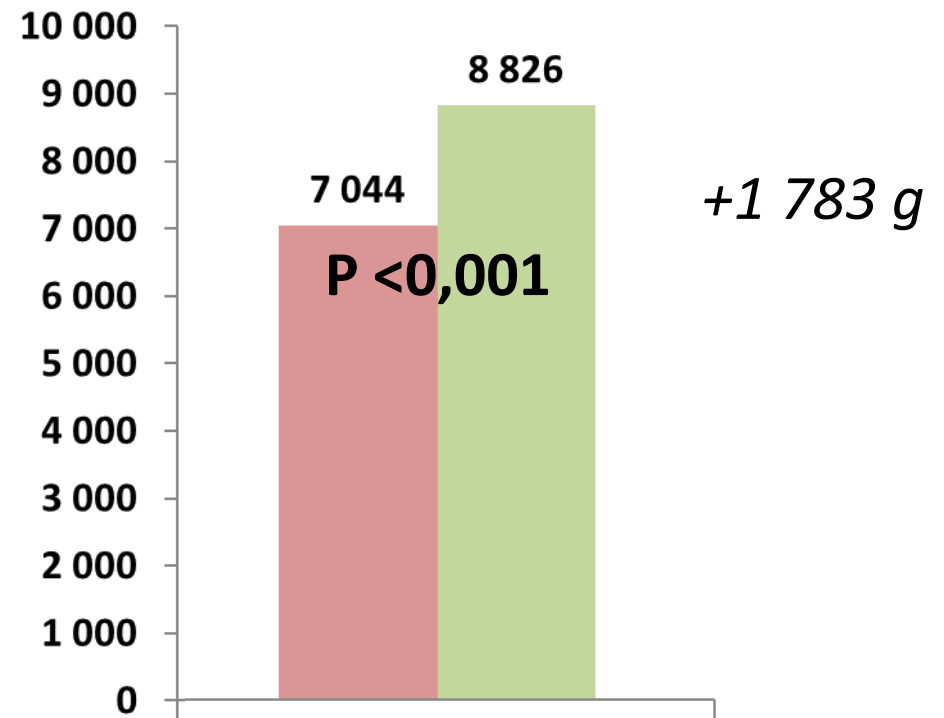


RESULTS: Weight at weaning



Individual weight at weaning (Grams)

Control Tradilin®



Litter weight at weaning (Grams)

CONCLUSION: TRADILIN[®] FLAX

The incorporation of Tradilin[®] in the does feed improves

- The prolificacy
- The viability of the rabbits before weaning
- The weight at weaning of the rabbits and of the litter

These beneficial effects of Tradilin[®] can be explained by

- Omega 3 level in the colostrum & milk: ↗ immunity & inflammatory status
- Lignans' content in flax seed: ↗ ovulation rate ; ↘ embryonic mortality

Tradilin[®] flax is an interesting nutritional solution in the does rabbit feed particularly in a context of alfalfa incorporation reduction



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Thank you for your attention



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