The synergistic effects of plant-derived phytotherapeutics on recombinant antigen vaccination against avian coccidiosis

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INTRODUCTION

1. Chickens - our major protein source & economically important food animal
2. Dietary phytonutrients (VAC) - enhances in vitro proliferation of lymphocytes, reduces parasite infection
3. Vaccination: antigen-boosted immunity
4. Overall: synergy of phytochemicals with recombinant protein

OBJECTIVE

1. To investigate the synergistic mechanism of VAC on recombinant antigen vaccination against avian coccidiosis
2. To evaluate the therapeutic potential of VAC

MATERIALS AND METHODS

1. Experimental animals and diets
2. Lymphoproliferation assay
3. Lymphocyte survival
4. Analysis of cytokine mRNA levels
5. Fecal oocyst counts
6. Intestinal tissue examination

RESULTS

1. Effect of dietary supplementation with VAC on antigen proliferation
2. Effect of dietary supplementation with VAC on antigen survival

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REFERENCES