



258 Research paper

Assessment of the innocuity and immunostimulant properties of plant extracts in chicken cell lines [Évaluation de l'innocuité et

by Allimonnier, L., Bellenot, D., Lemaire, B., Guilloteau, L., Travel, A.
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In Significant Impact Groups:

Specific alternatives \ Immunomodulators

Species targeted: Poultry;

Age: Not stated;

Summary:

The use of plant extracts in poultry feed is a promising approach to reinforce the animals' natural defenses. However, this approach is limited by the lack of robust references and solid methodological bases. Our objective was to develop and test a simple, reliable and repeatable method to determine capacities of plant extracts in stimulating the natural defenses of poultry. A bibliographic study helped identifying 4 plant extracts: Astragalus, Echinacea, Ginseng and Melissa. We have shown that Astragalus, Echinacea, Ginseng and Melissa had little or no cytotoxic effects. Results from experiments with Melissa and Ginseng suggest these may have immune stimulating activities. The Melissa and Ginseng extracts appear to be non-cytotoxic candidates, capable of stimulating the natural defenses of poultry.

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Where to find the original material:

<https://hal.inrae.fr/hal-02734430>;

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