



## MINISTRY OF JIHAD-E-AGRICULTURE

Agricultural Research, Education and Extension Organization

Animal Science Research Institute

### **In Vivo Assessment of Toxin Binder in Broilers**

**Research worker: Sirous norozi**

#### **Abstract:**

This experiment was conducted to evaluate the in vivo effects of Takgen toxin binder on performance, morphology and immunity of broilers in a completely randomized design with 6 treatments and 5 replicates of 12 birds in each. The experimental treatments were included, 1- Basal diet without aflatoxin (negative control), 2- Basal diet + aflatoxin (positive control), 3- Basal diet + aflatoxin + 1 dose toxin binder, 4- Basal diet + aflatoxin + 2 dose toxin binder, 5- Basal diet + aflatoxin + 3 dose toxin binder, 6- Basal diet + aflatoxin + toxin binder without carrier. The results showed that there were significant differences between treatments for body weight, feed intake and feed conversion efficiency at 21, 28, 35 and 42 days of age of broilers ( $p < 0.05$ ). The effect of different treatments on dressing percentage, thigh, breast, heart, gizzard, bile bladder, spleen, bursa fabriciosa and fat percentage was not significant ( $p > 0.05$ ), but liver percentage was affected by different treatments ( $p < 0.05$ ). The effect of different treatments on cellular and humoral immunity at 42 days of age was significant ( $p < 0.05$ ). It can be concluded that 2 doses of toxin binder can be added to the diets contaminated with aflatoxin as to improve performance and immunity of broilers.

**Key words:** Toxin binder, Performance, Immunity, Morphology, Aflatoxin, Broilers