

# SURVEY LEVELS OF AFLATOXINS IN FEED FOR ANIMAL

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## Summary

The title "evaluate the effective adsorption of aflatoxin B<sub>1</sub>, B<sub>2</sub> (*in vitro*) by CleanTox (bentonite) and T5X (yeast cell walls and inorganic)" was conducted at Diagnosis Testing and Treatment Station of HCM Veterinary Departments from June 2015 to August 2015. The experiment was designed with 12 treatments, six replications. The experimental results showed that using T5X at level recommended by the manufacturer (20 mg/10 g feeds) gave the effective adsorption of AFB<sub>1</sub> (88.01%) higher than AFB<sub>1</sub> (85.42%) of the CleanTox (10 mg/10 g feeds). The effectiveness of adsorption of AFB<sub>1</sub> and AFB<sub>2</sub> at the pH = 7 is better than pH = 3. There was similar in adsorption of AFB<sub>2</sub> by CleanTox (78.13%) and T5X (81.57%) with AFB<sub>1</sub>. At the level 500 ppb, T5X và CleanTox gave the effective adsorption of AFB<sub>1</sub> and AFB<sub>2</sub> is not good (73.84%). At the same level of toxins the effectiveness of adsorption of AFB<sub>1</sub> and AFB<sub>2</sub> was similar in pH = 3 (equivalent gastric pH) and pH = 7 (equivalent intestinal pH). CleanTox at level 20 mg/10 g feeds adsorbed AFB<sub>1</sub>, AFB<sub>2</sub> (96.82%, 93.10%, respectively) and T5X at level 40 mg/10 g feeds adsorbed AFB<sub>1</sub>, AFB<sub>2</sub> (98.7%, 96.57%, respectively) of 500 ppb levels in environmental conditions pH = 7.

**Keywords:** *Adsorption, aflatoxin, CleanTox, T5X.*