



TITLE: Feed Quality, Prevalence of Aflatoxin Contamination in Dairy Feed and Raw Milk in Oromia Special Zone Surrounding Finfinne, Ethiopia

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ABSTRACT

The study was attended in Oromia special zone around Finfinne with the objective to assess feed quality composition, detect and quantify the amount of aflatoxine (AFM1) in raw cow's milk and AFB1 in home-mixed feed of dairy. For this purpose, 90 milk, and 90 samples of feed from dairy farmers were collected. Analysis for AFM1 and AFB1 was conducted by high-performance liquid chromatography. The study discovered that the occurrence of AFM1 in all samples of milk, and detection level ranged from 0.02ppb to 0.08ppbL. Overall, 64 (71.1%) out of a total of 90 milk samples contained less than or equal to 0.05 ppb of AFM1. Moreover, 26(28.9%) milk samples exceeded 0.05 ppb. All the feed samples were contaminated with AFB1 minimum 12.67ppb and a maximum of 45.67ppb. Overall, out of a total of 90 feed samples collected, about 66 (73.3%) contained AFB1 at a level less than or equal to 20 ppb. At the same time, 34 (26.7%) of the feed samples contained AFB1 at a level exceeding 20 ppb. The Linear regression displayed that the significant associations between the presence of AFB1 in the feed and the levels of adulteration in AFM1 in milk. The level of aflatoxin pollution found during this study in milk, and feed ought to prompt action to spot appropriate interventions. These results recommend that risk mitigation should focus on reducing aflatoxin impurity in raw materials feed which can ultimately minimize AFM1 in milk.

Keywords: Aflatoxin, Feed, Milk, contamination, Home-mixed, dairy.

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BIOGRAPHY

The author was born on the April 13, 1987 in West Wollaga Zone, Manasibu district. He attended his elementary and secondary school educations at Mendi Mekaneyesus Junior Secondary and Mendi Senior Secondary Schools, respectively. In 2003, he completed secondary school education successfully, and passed the Ethiopian Schools Leaving Certificates Examination (ESLCE) and joined Haramaya University in 2003/2004 to pursue his BSc study and graduated with BSc degree in Agriculture (Animal Production and Health) in August 2006. After graduation, he was employed as Junior Instructor at Nedjo Agriculture Technical Vocational Educational and Training College (NATVETC) in September, 2006. During his stay, he also served as department head of animal science department in the college. After serving for 4 years of service, he joined the School of Graduate Studies of Haramaya University in October, 2011 to pursue his MSc study in Animal Production and graduate with MSC degree in animal production in June, 2013. After MSc graduation, he was employed by Assosa University as a lecturer in the College of Agriculture and Natural Resources in the department of Animal Science. During his stay at the University, he was also served as College Educational Quality Coordinator. In October 2016/17, he has got the chance to join Addis Ababa University, College of Veterinary Medicine and Agriculture to pursue his PhD study in Animal Production program. During his career, he published seven scientific articles on the reputable international journals. Now He is lecturer and researcher in Assosa University.