

## ABSTRACT

### THE CORRELATION OF MYCOTOXINS WITH PRODUCTION AND HEALTH PARAMETERS ON CENTRAL CALIFORNIA DAIRIES

Molds and mycotoxins are a common threat to the high producing dairy cow. There are several products with different modes of action aimed at decreasing the effects of molds and mycotoxins in the animals. The object of this study was to measure cytokines in the dairy cow's serum as an indicator of immune responses to varying levels in molds and mycotoxins in the ration. Ten dairy cows were selected from four dairies. These animals and their rations were sampled every 14 d for a total trial length of 140 d. At day 70 two dairies began feeding MTB-100 and the blood sampling continued. The results for the trial were inconclusive due to the error in lab procedures. However, trend line data was developed and showed promise for future research on the relationship between TNF-alpha and mold levels.

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December 2009