



Method Used:

Thin Layer Chromatography is the accepted reference method by the Association of Official Analytical Chemists and has AOAC International status.

Test routinely assayed are: Aflatoxin, Deoxynivalenol (DON) or Vomitoxin 3 acetyl, 15 acetyl and Zearalenone

Aflatoxin: Is a naturally occurring mycotoxin.

Producing Organisms: *Aspergillus flavus* and *Aspergillus parasiticus*, consisting primarily of aflatoxins B1, B2, G1, G2, and M1

Conditions favoring disease and toxin formation in the field: Growing conditions where the ambient temperature (day > 90 F.; night > 75 F.), noted during drought conditions. The mold occurs in soil, decaying vegetation, hay, and grains undergoing microbiological deterioration.

Deoxynivalenol (DON) or Vomitoxin, Zearalenone, T-2, Aflatoxin, Fumonisin

Producing Organisms: The group known as *Fusarium* toxins

Conditions favoring disease and toxin formation in the field: Extended periods of cool and wet conditions during the late summer and fall months.

Fumonisin: B1, B2, and B3 are the most abundant in contaminated feed. This mycotoxin has been associated with equine leukoencephalomalacia (ELEM) and pulmonary edema in swine.
