

Kit Elisa Aflatoksin B1 *Aflatoxin B1 ELISA Kit*



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Kit Elisa ini merupakan teknik deteksi cepat terhadap aflatoksin B1 (AFB1) secara *Enzyme Linked Immunosorbent Assay* (Elisa). Elisa kit aflatoksin dapat digunakan untuk menganalisis AFB1 pada produk pertanian dan residu AFB1 pada ternak, diantaranya, jagung, kacang tanah, pakan ternak, produk ternak (telur, hati, daging).

Keunggulan Kit Elisa Aflatoksin B1 ini adalah ekstraksinya sederhana, menggunakan methanol, cepat (15 menit), sensitif (limit deteksi 0,3 ng/gr), akurat (hasil konsisten dengan metode HPLC) dan reprodusiabel, dapat menganalisis 40 sampel (duplo) sekaligus. Teknologi ini dapat dimanfaatkan oleh pergudangan, industri benih, peternak dan prospektif dikembangkan oleh industri farmasi dan kimia industri.

The ELISA kit is a rapid detection technique for aflatoxin B1 (AFB1) using specific polyclonal antibodies. This kit can be used to analyze aflatoxin presence in agricultural products such as corn, peanuts, animal feed, animal products (eggs, liver, and meats). This kit is working based on the principle of the antibody coated micro plate, addition of enzyme conjugate and addition of sample solution. In this reaction there will be a competition between the aflatoxin B1 and conjugate. In the final stage after washing there will be a color formation. The cross reactivity occurs as follow, AFB1 100%, AFB2 0.9%, AFG1 3.1%, AFG2 11.2%.

The ELISA kit is able to perform analysis using simple extraction sample, analyzing time is fast (15 minutes), sensitive and specific (detection limit of 0.3 ng/g), accurate (consistent with the results of HPLC method) to a range of 0.3 to 30 ng/g, and can analyze 40 samples (duplicate) all at once. The ELISA Kit for detecting aflatoxin can be developed commercially by the food and feed industry in an effort to prevent the entry of aflatoxins into food and feed that are dangerous to human and animal health.