ABSTRACT

KIT FOR RAPID DETECTION OF MOLECULE INDICATING TOXIGENICITY OF AFLATOXIN-PRODUCING FUNGI, AND USE THEREOF

The present invention relates to a kit for rapid detection of a molecule indicating the toxigenicity of the aflatoxin-producing fungi, and use thereof. The kit comprises an ELISA plate coated with nanobodies or monoclonal antibodies against the molecule indicating the toxigenicity of the aflatoxin-producing fungi at the bottoms of wells, polyclonal antibodies against the molecule indicating the toxigenicity of the aflatoxin-producing fungi, a pure solution of the molecule indicating the toxigenicity of the aflatoxin-producing fungi functioning as a reference material, a Czapek-Dox medium, horseradish peroxidase-labeled antibodies, a chromogenic solution for ELISA, a stop solution for ELISA and a sample diluent; the molecule indicating the toxigenicity of the aflatoxin-producing fungi refers to an AFT-YJFZP008 peptide, of which the amino acid sequence is shown in SEQ ID NO. 1. The kit can be used for rapidly and quantitatively detecting the molecule AFT-YJFZP008 indicating the toxigenicity of the aflatoxin-producing fungi, can be used for identifying and comparing the aflatoxin-producing ability of aflatoxin-producing strains of genus *Aspergillus*, and is easy to operate, practical and easy to popularize and apply.