



# Food and Drug Residues Detection Products

# ELISA

Nowadays, food safety has become a global issue because it affects the health of everyone. ELISA is a powerful immunoassay that can qualitatively or quantitatively detect the bacteria, parasites, chemicals, drug residual and other food contaminations.

CUSABIO ELISA kits are especially designed to meet high quality demands in food and drug residues testing, mainly focusing on chemical contaminants comprising on natural and artificial contaminants. CUSABIO developed effective solutions to detect food and drug residues such as Gentamicin (GEN), Kanamycin (KA), Aflatoxin, and so on.

## Understanding How to Detect Food Safety & Drug Residues Using ELISA Kits

ELISA Kit is based on specific reaction of antigen-antibody. Antigen is pre-coated on microplate, then standard (or sample), HRP conjugated secondary antibody and specific antibody are added to each well of microplate successively. Competitive binding of the specific antibody occurs between the pre-coated antigen and standard (or sample). Meanwhile, HRP conjugated secondary antibody will bind to the specific antibody as well. At last, as TMB Substrate is added to each well, the color will change.

By co-developing mycotoxin testing ELISA Kit with Oil Crops Research Institute, Chinese Academy of Agricultural Sciences (CAAS) and National Agricultural Testing Standard Laboratory (Biotoxin), our products boast following **advantages**:

1. Uniform sample pretreatment—one extraction can be used to detect several mycotoxins;
2. High stability and specificity—we produce some raw materials: antibody by ourselves;
3. Minimal training for operation.



You can also get quantitative result using Microplate Reader.

## © Toxin ELISA Kit

| Code          | Product Name                   | Sample Types  | Detection Range       | Size |
|---------------|--------------------------------|---|-----------------------|------|
| CSB-E14087    | Aflatoxin B1 (AFB1) ELISA kit  | feedstuff, feed, grain, edible oil                  | 0.15 µg/kg-4.05 µg/kg | 96T  |
| CSB-EL027236  | Aflatoxin M1 (AFM1) ELISA kit  | milk, raw milk, yoghurt, milk powder, cheese, cream | 5 ppt-135 ppt         | 96T  |
| CSB-E12829f   | Deoxynivalenol (DON) ELISA kit | feedstuff, feed, grain                              | 1 µg/kg-81 µg/kg      | 96T  |
| CSB-E11104    | Fumonisin B1 ELISA kit         | corn, feed  | 3 ppb-243 ppb         | 96T  |
| CSB-EFD027449 | Ochratoxin A (OTA) ELISA kit   | food, cereals                                       | 0.15 µg/kg-4.05 µg/kg | 96T  |
| CSB-EFD027448 | T-2 toxin (T2) ELISA kit       | feedstuff, feed, grain                              | 0.3 µg/kg-8.1 µg/kg   | 96T  |
| CSB-E09923    | Total Aflatoxins ELISA kit     | feed, peanuts, rice, corn, edible oil, tissue       | 0.02 ppb-1.62 ppb     | 96T  |
| CSB-E12830f   | Zearalenone (ZEN) ELISA kit    | feedstuff, feed, grain                              | 0.15 µg/kg-4.05 µg/kg | 96T  |

## © Drug Residue ELISA Kit

| Code           | Product Name                               | Sample Types   | Detection Range    | Size |
|----------------|--|--|--------------------|------|
| CSB-E51A       | Amantadine ELISA kit                       | tissue, feed   | 0.5 ppb-40.5 ppb   | 96T  |
| CSB-EFD028242  | Aminohydantoin (ADH) ELISA kit             | tissue (fish, shrimp, chicken, duck, pork, beef)                   | 0.02 ppb-0.75 ppb  | 96T  |
| CSB-E12037f    | Chloramphenicol (CAP) ELISA kit            | honey, eggs, tissue, aquatic product                               | 0.01 ppb-0.81 ppb  | 96T  |
| CSB-E12022f    | Clenbuterol (CL) ELISA kit                 | tissue, feed, urine  | 0.05 ppb-4.05 ppb  | 96T  |
| CSB-EFD028240  | Dexamethasone (DXM) ELISA kit              | muscle, milk, feed   | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-E12035f    | Enrofloxacin (ER) ELISA kit                | tissue (chicken, pork, duck, fish, shrimp), egg, serum, honey      | 1 ppb-81 ppb       | 96T  |
| CSB-EFD028230  | Erythromycin (E-Mycin) ELISA kit           | eggs, chicken  | 0.15 ppb-12.15 ppb | 96T  |
| CSB-E12036f    | Fluoroquinolones ELISA kit                 | honey, tissue (pork, chicken, liver, fish, shrimp)                 | 1 ppb-81 ppb       | 96T  |
| CSB-EFD028241  | Furaltadone Metabolite (AMZO) ELISA kit    | tissue (fish, shrimp, chicken, duck, pork, beef)                   | 0.03 ppb-1 ppb     | 96T  |
| CSB-E12038f    | Furazolidone (AOZ) ELISA kit               | tissue (fish, shrimp, chicken, duck, pork, beef)                   | 0.02 ppb-0.75 ppb  | 96T  |
| CSB-E12088f    | Gentamicin (GEN) ELISA kit                 | milk, tissue (pork, liver, chicken)                                | 0.3 ppb-24.3 ppb   | 96T  |
| CSB-EFD1027696 | Kanamycin (KA) ELISA kit                   | milk, milk powder, tissue (chicken, pork)                          | 0.5 ppb-40.5 ppb   | 96T  |
| CSB-EFD027642  | Malachite Green ELISA kit                  | fish, shrimp   | 0.025 ppb-0.4 ppb  | 96T  |
| CSB-EFD028229  | Neomycin (NMC) ELISA kit                   | honey, milk, milk powder, tissue (chicken, pork, liver)            | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-E12030f    | Nitrofurazone (SEM) ELISA kit              | tissue (fish, shrimp, chicken, duck, pork, beef)                   | 0.02 ppb-0.75 ppb  | 96T  |
| CSB-E12095f    | Penicillin G (benzyl penicillin) ELISA kit | tissue (chicken, pork, liver), pig urine, milk                     | 15 ppt-1215 ppt    | 96T  |
| CSB-EFD028239  | Phenylethanolamine A ELISA kit             | tissue, feed, urine  | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-E12023f    | Ractopamine (RA) ELISA kit                 | tissue, feed, muscle, liver, urine                                 | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-EFD028179  | Salbutamol (SALB) ELISA kit                | tissue, feed, liver, urine   | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-E12087f    | Streptomycin (SM) ELISA kit                | tissue, honey, milk, milk powder                                   | 0.1 ppb-8.1 ppb    | 96T  |
| CSB-EFD028097  | Sulfadimidine (SM2) ELISA kit              | tissue, urine, honey, milk, egg                                    | 0.5 ppb-40.5 ppb   | 96T  |
| CSB-EFD027641  | Sulfamethoxazole (SMZ/SMX) ELISA kit       | honey, milk, serum, urine, tissue                                  | 1 ppb-81 ppb       | 96T  |
| CSB-E12083f    | Sulfathiazole (ST) ELISA kit               | honey, chicken, pork, fish and shrimp                              | 1 ppb-27 ppb       | 96T  |
| CSB-E12094f    | Sulfonamides (SAs) residue ELISA kit       | milk, tissue (chicken, pork, beef liver, sheep), swine urine, eggs | 1 ppb-81 ppb       | 96T  |
| CSB-E12090f    | Tetracyclines ELISA kit                    | honey, tissue (chicken, pork)                                      | 0.05 ppb-4.05 ppb  | 96T  |
| CSB-EFD028231  | Tylosin (TYL) ELISA kit                    | muscle, liver, honey   | 1.5 ppb-121.5 ppb  | 96T  |

## Immunoaffinity Column

**Immunoaffinity Column is based on reversible specific binding of antigen-antibody.**

By co-developing Immunoaffinity Column with Oil Crops Research Institute, Chinese Academy of Agricultural Sciences (CAAS) and National Agricultural Testing Standard Laboratory (Biotoxin), our products are of following **advantages:**



1. Large Loading Column Capacity;
2. High specificity: monoclonal antibody site-specific conjugation;
3. Easy to elute: easy to achieve required concentration of low concentration sample as small amount of elute is sufficient for total elution;
4. High stability: recovery rate at 85%-110%;
5. Multiple or individual analysis in conjunction with HPLC, LC-MS/MS or Elisa Kit.

You can also get quantitative result using Incubator and Handheld Quantitative Analyzer.

### © Mycotoxin Immunoaffinity Column

| Product Name                   | Product Code | Column Volume | Column Capacity                         | Recovery Rate | Size      |
|--------------------------------|--------------|---------------|---|---------------|-----------|
| Aflatoxin total (AFT) IAC      | CSBC01A      | 3ml           | ≥200ng                                  | 85%-110%      | 25pcs/box |
| Aflatoxin B1 (AFB1) IAC        | CSBC02A      | 3ml           | ≥500ng                                  | 85%-110%      | 25pcs/box |
| Aflatoxin M1 (AFM1) IAC        | CSBC08A      | 3ml           | ≥500ng                                  | 85%-110%      | 25pcs/box |
| Zearalenone (ZEN) IAC          | CSBC03A      | 3ml           | ≥1500ng                                 | 85%-110%      | 25pcs/box |
| Deoxynivalenol (DON) IAC       | CSBC04A      | 3ml           | ≥2000ng                                 | 85%-110%      | 25pcs/box |
| Ochratoxin A (OTA) IAC         | CSBC05A      | 3ml           | ≥120ng                                  | 85%-110%      | 25pcs/box |
| T-2 toxin (T2) IAC             | CSBC06A      | 3ml           | ≥1500ng                                 | 85%-110%      | 25pcs/box |
| Fumonisin B1 (FB1) IAC         | CSBC07A      | 3ml           | ≥5000ng                                 | 85%-110%      | 25pcs/box |
| Fumonisin Total IAC            | CSBC09C      | 3ml           | ≥5000ng                                 | 85%-110%      | 25pcs/box |
| AFB1/ZEN Two in One IAC        | CSBC09A      | 3ml           | AFB1≥200ng,<br>ZEN≥1500ng               | 85%-110%      | 25pcs/box |
| AF/ZEN/DON<br>Three in One IAC | CSBC21A      | 3ml           | AFT≥200ng,<br>ZEN≥1500ng,<br>DON≥2000ng | 85%-110%      | 25pcs/box |

P.S: 50pcs/box available.



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