

## **ELISA Kit Composition and Classification of Common ELISA Kits**

**The main components of the ELISA kit are as follows:**

- (1) Solid phase carrier (immunosorbent) that has been encapsulated with antigen or antibody;
- (2) Antigen or antibody of C (conjugate);
- (3) Substrate for the enzyme;
- (4) Negative and positive controls (in qualitative assays), reference standards, and control serum (in quantitative assays);
- (5) Dilutions of conjugates and samples;
- (6) Wash buffer, the commonly used dilution solution is phosphate-buffered saline containing 0.05% Tween 20;
- (7) Stop solution, the commonly used HRP reaction stop solution is sulfuric acid, the concentration of which varies according to the amount added and the final volume of the colorimetric solution, and 2 mol/L is generally used in ELISA.

### **Common ELISA Kits**

#### **I. ELISA Kits for food safety testing**

It refers to the test kits for hormones, drugs, mycotoxins, allergen residues, genetically modified products in food, as well as test products for microorganisms and vitamins.

It includes agricultural diagnostic kits for plant viruses, bacteria, fungi, plant hormones,

and genetically modified crops, as well as animal and plant disease diagnostic categories such as pigs, cattle, sheep, horses, and other livestock and poultry and pet testing kits.

#### **II. Biological Kits**

##### **1. Cytokine detection kits**

Such as interleukin, selectin, colony-stimulating factor, tumor necrosis factor, interferon, transforming growth factor, chemokine, cytokine receptor, adhesion molecule, growth factor, apoptosis factor, and so on.

##### **2. Myocardial infarction detection ELISA kits**

Such as troponin, myoglobin, C-reactive protein, and so on.

##### **3. ELISA kits for endocrine testing**

Such as thyroid, pancreas, sex hormones, progesterone, testosterone, growth hormone, growth inhibitor, endothelin, cortisol, osteocalcin, prolactin, adrenocorticotrophic hormone, follicle-stimulating hormone, oestradiol, oestriol, 5-hydroxytryptophan, 17-hydroxyprogesterone and so on.

##### **4. Liver fibrosis detection ELISA kits**

Such as fibronectin, hyaluronic acid, collagen, matrix metalloproteinase inhibitor,

matrix metalloproteinase, laminin, and so on.

#### 5. Auto-immune detection ELISA kits

Such as thyroid, saline extractable nuclear antigen antibody (ENA), anti-nuclear antibody, DNA, anti-cardiolipin antibody, rheumatoid factor, circulating immune complex, anti-islet cell antibody, trypsinogen, Sm, herpetic pemphigoid, protease, short membrane worm method, liver-kidney, liver-kidney-gastric, endomysial antibody, keratin antibody, anti-nuclear antibody, anti-ribosomal protein antibody, anti-polykeratin microfilament protein antibody, anti-chain O, anti-ovine microfilament protein antibody, etc. antibodies, anti-chain O, anti-ovarian antibodies, anti-smooth muscle antibodies, anti-mitochondrial antibodies, etc.

#### 6. Eugenics testing ELISA kit

Such as early pregnancy, neonatal TSH, premature rupture of membranes test, anti-endometrial antibody, anti-cardiolipin antibody, anti-Zona pellucida antibody, anti-oocyte Zona pellucida antibody, anti-ovarian antibody, anti-sperm antibody, cytomegalovirus, Toxoplasma gondii, rubella virus, labor prediction, mononucleated leukocytosis, herpes simplex virus, follicle-stimulating hormone, luteinizing hormone, fecal occult blood test, HCG, etc.

#### 7. ELISA kits for infectious disease detection

Such as Helicobacter pylori, Encephalitis B, Hepatitis B, Hepatitis C, Hepatitis D, Hepatitis E, Hepatitis G, Chlamydia, Sexually Transmitted Diseases, Adenoviruses, Microvirus B19, Herpes Pemphigoid, Varicella Zoster Virus, Mycoplasma Genitalis, Typhoid Fever, Trachoma, Parotitis, Mycoplasma Humanum, Measles, Rotavirus, Epidemic Haemorrhagic Fever, Gonococcus, Lyme Disease, Coxsackie, Mycoplasma Ureaplasma Antipyretic, Legionella, Tuberculosis, Collagen, Condyloma acuminatum Hepatitis A, Polio, Acute Pancreatitis Urinary Trypsin, Cholera, Respiratory Syncytial Virus, Hepatic Schistosomiasis, Parainfluenza, Pneumonia, Herpes Zoster, Infectious Mononucleosis, Laminin, Brucella, Whooping Cough, Diphtheria, Ichneumovirus, Epstein-Barr Virus, Streptococcus A.

#### 8. Speciality Protein ELISA Kits

Such as immunoglobulin, anti-chain O-ase, rheumatoid factor RF, C-reactive protein, microalbumin,  $\beta$ -2 microglobulin human, ferritin, transferrin and so on.

#### 9. ELISA kits for tumor marker detection

Tumour Markers, Tissue Peptide Antigen, Tumour Associated Factors, Pancreatic Cancer, Rectal Cancer, Cytokeratin Fragment, Gastrointestinal Cancer, Ferritin, Glycosylcerol Chain Antigen, Neurogenic Diluted Alcoholase, Epithelial Membrane Antigen, Breast Cancer, Human Anti-mouse Antibody, Prostate, Alpha-Fetoprotein, Liver Cancer, Colon Cancer, Lung Cancer, Urinary and Fecal Occult Blood Tests, Carcinoembryonic Antigen, Beta-2 Microglobulins, and so on.

JonInbio, after more than 10 years of accumulation and precipitation of ELISA kits

technology, constantly innovates and breaks through. Jonln Bio has always taken the concept of “providing the best quality to customers and serving the interests of customers” as our philosophy. Our main products include mouse ELISA kits, human ELISA kits, rat ELISA kits, pig ELISA kits, bovine ELISA kits and etc.