

# Meizheng Meat, Eggs and Seafood Test

[en.meizhengbio.com](http://en.meizhengbio.com)

MEIZHENG BIO-TECH







Meizheng is focused on food safety testing solutions and has developed multiple product lines for food safety testing, including rapid testing, microbiological testing, and lab testing solutions. Our solutions are targeted at food value chain stakeholders in various industries like grain, feed, dairy, honey, meat processing, distribution, etc. Our testing items cover biotoxin, heavy metal, vet drug residue, pesticide residue, nutrition, pathogen, etc.

Through years of development, Meizheng has set up 5 entities and 4 manufacturing sites in China, and has developed technological platforms including immunoassay, ELISA, sample preparation, microbiology, standard materials, automated instrument, etc. The company has passed ISO9001 quality management system, and has also set up a certified third party testing lab.

Meizheng is committed to provide fit-for-purpose food safety testing solutions. Various series products such as ToxinFast®, HMFAST®, AnticFast® and MicroFast® have been recognized by customers. Besides China, Meizheng products have been sold in over 20 countries like Russia, Belarus, France, United States, India, Vietnam, etc.

In 2019, Meizheng was incorporated into PerkinElmer, and has further expanded overseas network since then. Also, Meizheng has accelerated various products' certification process in AOAC and ILVO. In 2021, MicroFast® Aerobic Count Plate (AC) has obtained AOAC certificate.

For meat, eggs and seafood segment, our products cover rapid testing kits and instruments, enabling rapid detection of antibiotic residues, pesticide residues, illegal additives, hormones, and marine toxins.





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# Types of residues that can be detected

Veterinary Drug Residues	
<b>Sulfonamides</b>	Sulfamethazine, etc.
<b>Quinolones</b>	Enrofloxacin, ofloxacin, etc.
<b>Tetracyclines</b>	Tetracycline, doxycycline, oxytetracycline, and chlortetracycline
<b>Amphenicols</b>	Chloramphenicol, florfenicol, and thiamphenicol
<b>Aminoglycosides</b>	Streptomycin, gentamicin, and neomycin
<b>Macrolides</b>	Tylosin and tilmicosin
<b>Nitrofurans</b>	Furaltadone, furazolidone, furantoin, and furacilin
<b>Lincosamides</b>	Lincomycin
<b>Nitroimidazoles</b>	Metronidazole and dimetridazole
<b>Quinoline</b>	Olaquinox metabolite
<b>Beta-lactams</b>	Penicillin G, etc.
<b>Polypeptides</b>	Colistin
<b>Others</b>	Nicarbazin, trimethoprim, diclazuril, and amantadine



### **Pesticide Residues**

**Carbendazim, fipronil, and sodium pentachlorophenol**

### **Illegal Additives**

**Malachite green, clenbuterol, ractopamine, and salbutamol**

### **Marine Toxins**

**Tetrodotoxin, Diarrhetic Shellfish Poison (DSP), and microcystin**

### **Hormones**

**Dexamethasone, diethylstilbestrol**



# Lateral Flow Rapid Test Kits

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## Features



High sensitivity and accuracy, good stability



Fast detection, only 5-10 minutes for most samples



Low false positive rate, less than 5%, zero false negative rate



Manual operation, the results can be visual interpretation, or instrumental interpretation.

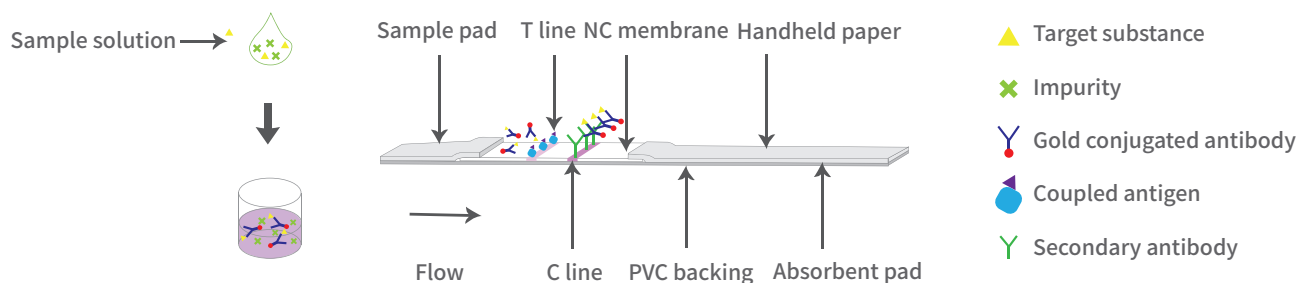


# Lateral Flow Rapid Test Kits

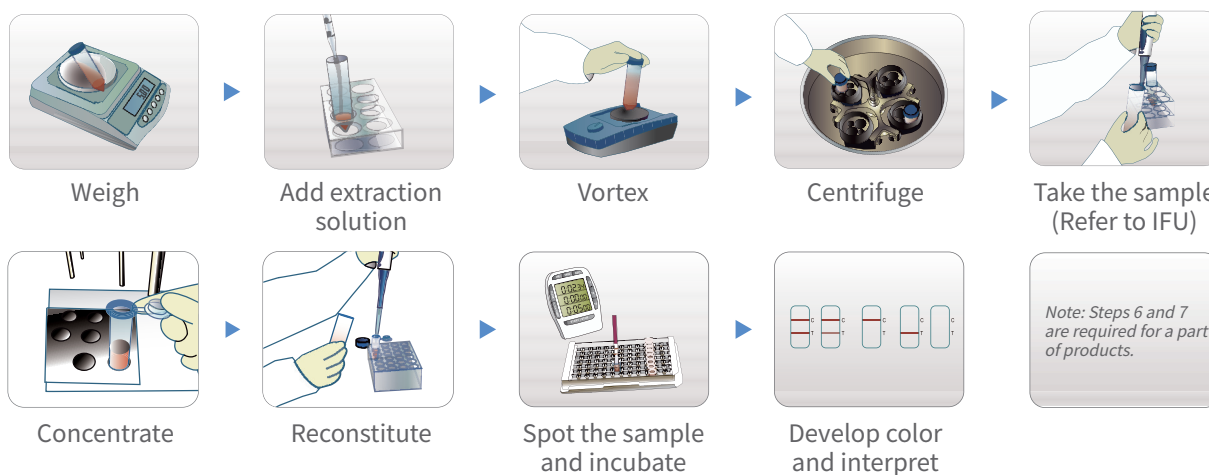
## Reaction Principle

Lateral Flow Tests (LFTs), also known as lateral flow immunochromatographic assays or rapid tests, is an experimental technique based on the combination of Immune Colloidal Gold Technology and Antigen-Antibody reaction. LFTs are simple devices intended to detect the presence of a target substance in a liquid sample without the need for specialized and costly equipment.

The sample solution absorbed on the sample pad is wicked onto the NC membrane (nitrocellulose filter membrane). The target substance in the sample solution competes with the test line (T line) on the NC membrane for binding the gold conjugated antibodies. The presence of a target substance in the sample is qualitatively determined through the color contrast of C line and T line.



## Test Procedure



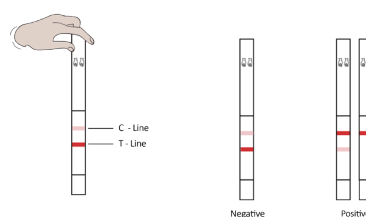
## Product Information

Detection Sample: Meat, egg and seafood

Storage: 2-8°C , keep away from sunlight and moisture.

Shelf life: 12 months.

## Visual Interpretation





# Product List

## Veterinary Drugs

Catalog No.	Product Name	LOD (µg/kg)	Specification (test/kit)	Detection Sample
MQ01ER	Chloramphenicol Rapid Test Kit	0.1	48T	Meat, Seafood, Egg
MQ28ER	Nitroimidazoles Rapid Test Kit	0.5	48T	Egg
MQ08ER	Sulfonamides Rapid Test Kit	0.5	48T	Egg
MQ03ER	Furazolidone Metabolite Rapid Test Kit	0.5	32T	Meat, Seafood, Egg
MQ04ER	Furaltadone Metabolite Rapid Test Kit	0.5	32T	Meat, Seafood, Egg
MQ05ER	Furacilin Metabolite Rapid Test Kit	0.5	32T	Meat, Seafood, Egg
MQ06ER	Furantoin Metabolite Rapid Test Kit	0.5	32T	Meat, Seafood, Egg
MQ03KER	Furazolidone Metabolite Rapid Test Kit	0.5	32T	Meat
MQ04KER	Furaltadone Metabolite Rapid Test Kit	0.5	32T	Meat
MQ05KER	Furacilin Metabolite Rapid Test Kit	0.5	32T	Meat
MQ06KER	Furantoin Metabolite Rapid Test Kit	0.5	32T	Meat
MQ07CER	Quinolones Rapid Test Kit	0.5	96T	Seafood
MQ07BER	Quinolones Rapid Test Kit	2	96T	Seafood
MQ07B3ER	Quinolones Rapid Test Kit	2	96T	Seafood
MQ08BER	Sulfonamides Rapid Test Kit	3	96T	Seafood
MQ08CER	Sulfonamides Rapid Test Kit	1	96T	Seafood
MQ53AER	Trimethoprim Rapid Test Kit	3	96T	Seafood
MQ13B1ER	Florfenicol Rapid Test Kit	0.1	48T	Seafood
MQ53K1ER	Trimethoprim Rapid Test Kit	Method 1: 5 Method 2: 20 Method 3: 50	48T	Meat
MQ40A2ER	Nicarbazine Rapid Test Kit	50	48T	Meat
MQ07KER	Quinolones Rapid Test Kit	40	48T	Meat, Seafood
MQ08NER	Sulfonamides Rapid Test Kit	20	48T	Meat, Seafood
MQ09KER	Tetracyclines Rapid Test Kit	60	48T	Meat, Seafood
MQ13L1ER	Florfenicol Rapid Test Kit	Method 1: 50 Method 2: 100	48T	Meat
MQ21AER	Lincomycin Rapid Test Kit	50	48T	Meat
MQ37BER	Tilmicosin Rapid Test Kit	60	48T	Meat
MQ38CER	Olaquinox Metabolite Rapid Test Kit	0.5	48T	Meat, Seafood, Egg
MQ03UER	Furazolidone Metabolite Rapid Test Kit	0.5	32T	Egg
MQ04UER	Furaltadone Metabolite Rapid Test Kit	0.5	32T	Egg
MQ05UER	Furacilin Metabolite Rapid Test Kit	0.5	32T	Egg
MQ06UER	Furantoin Metabolite Rapid Test Kit	0.5	32T	Egg
MQ13U5ER	Florfenicol/Thiamphenicol Rapid Test Kit	Florfenicol: 0.1 Thiamphenicol: 0.6	48T	Egg
MQ22BER	Lincomycin Rapid Test Kit	30	48T	Egg
MQ37UER	Tilmicosin Rapid Test Kit	15	48T	Egg
MQ55UER	Tylosin Rapid Test Kit	150	48T	Egg
MQ53UER	Trimethoprim Rapid Test Kit	5	48T	Egg

Catalog No.	Product Name	LOD (µg/kg)	Specification (test/kit)	Detection Sample
MQ07U6ER	Quinolones Rapid Test Kit	2-5	48T	Egg
MQ08V1ER	Sulfonamides Rapid Test Kit	6	48T	Egg
MQ09UER	Tetracyclines Rapid Test Kit	30	48T	Egg
MQ35UER	Beta-lactams Rapid Test Kit	4-8	48T	Egg
MQ55KER	Tylosin Rapid Test Kit	Tylosin: 100 Tilmicosin: 100 Tyvanillin: 150	48T	Meat, Animal urines
MQ61KER	Colistin Rapid Test Kit	150	48T	Meat
MQ03A1ER	Furazolidone Metabolite Rapid Test Kit	1	32T	Seafood
MQ05A1ER	Furacilin Metabolite Rapid Test Kit	1	32T	Seafood
MQ06A2ER	Furantoin Metabolite Rapid Test Kit	1	32T	Seafood
MQ04A1ER	Furaltadone Metabolite Rapid Test Kit	1	32T	Seafood
MQ08B1ER	Sulfonamides Rapid Test Kit	3	96T	Seafood
MH03AER	Furazolidone Metabolite Rapid Test Kit	0.1/0.5	32T	Meat, Seafood, Egg
MH04AER	Furaltadone Metabolite Rapid Test Kit	0.1/0.5	32T	Meat, Seafood, Egg
MH05AER	Furacilin Metabolite Rapid Test Kit	0.1/0.5	32T	Meat, Seafood, Egg
MH06AER	Furantoin Metabolite Rapid Test Kit	0.1/0.5	32T	Meat, Seafood, Egg

## Illegal Additives

Catalog No.	Product Name	LOD (µg/kg)	Specification (test/kit)	Detection Sample
MQ02AER	Malachite Green Rapid Test Kit	0.5	32T	Seafood

## Hormones

Catalog No.	Product Name	LOD (µg/kg)	Specification (test/kit)	Detection Sample
MQ39AER	Dexamethasone Rapid Test Kit	1	96T	Meat

## Pesticides residue

Catalog No.	Product Name	LOD (µg/kg)	Specification (test/kit)	Detection Sample
MK106D1ER	Carbendazim Rapid Test Kit (Cassette)	500	50T	Juice
MQ46AER	Fipronil Rapid Test Kit	10	48T	Egg



# ELISA Test Kits

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## Features



High sensitivity, detection limit is at ng/kg level



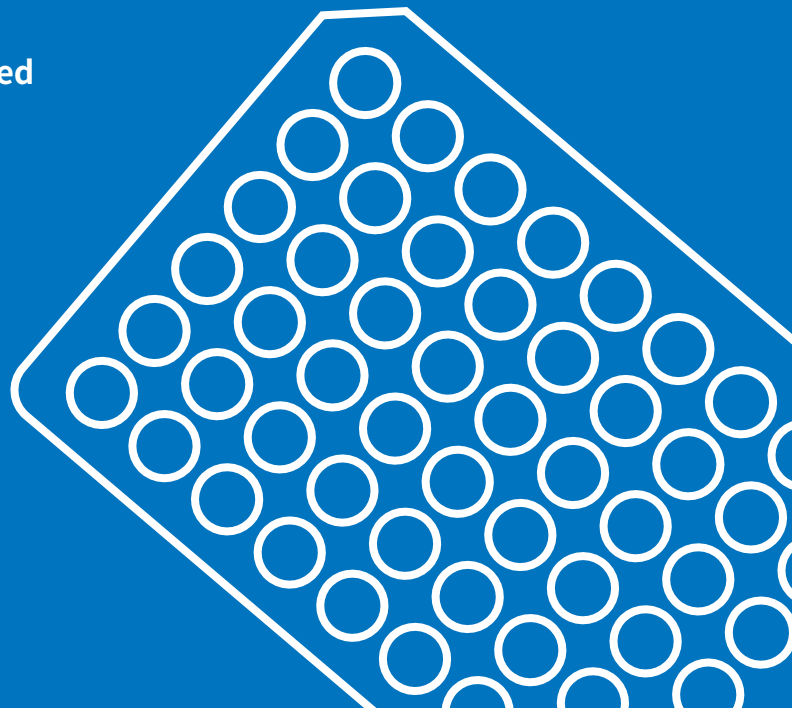
The test time for a single batch of samples is 50-60 minutes



The coefficient of variation is less than 10%, and the false positive rate is less than 5%



Only small equipment are required



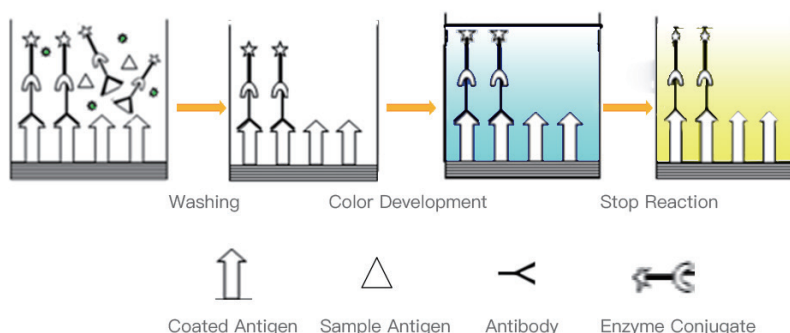
# ELISA Test Kits

## Reaction Principle

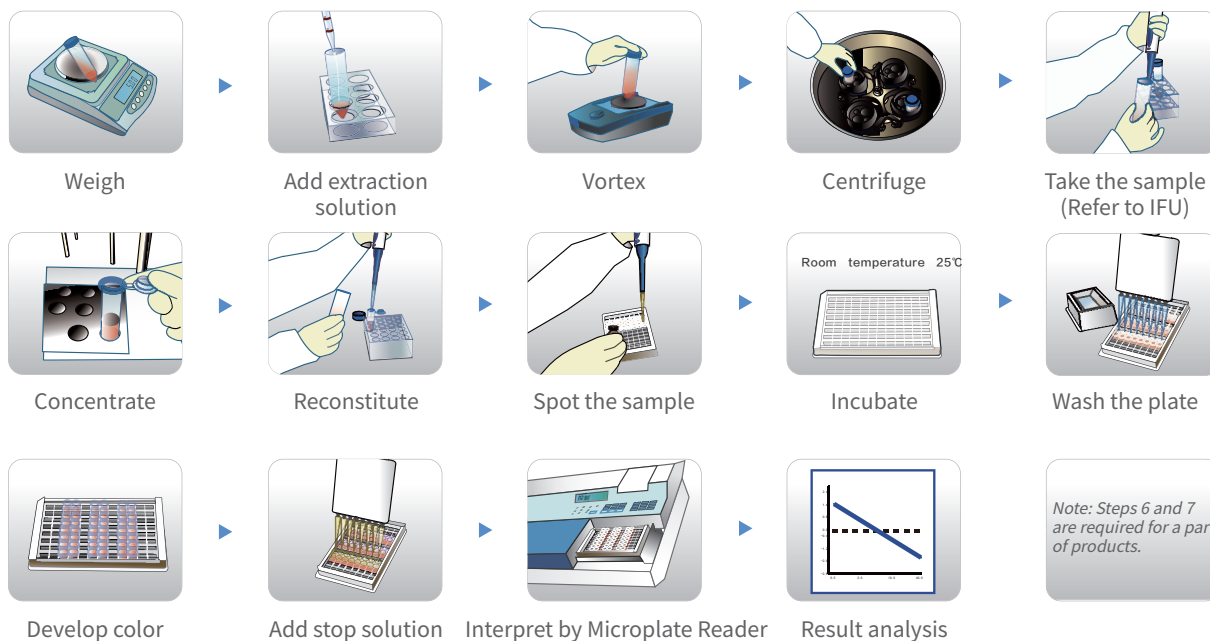


The Enzyme-linked Immunosorbent Assay (ELISA) is a common experimental technique based on immunological reaction with high sensitivity, which combines antigen-antibody (Ag-Ab) interactions and catalytic action on substance by enzyme.

Antigen-antibody interaction occurs in a polystyrene microtiter plate (a solid support). After incubating with the reagent, the unbound antibodies are removed by washing the plate to ensure the specificity and stability of the results. For competitive ELISA, the more antigen in the sample solution, the more Ag-Ab complexes are formed and so there are less unbound antibodies available to bind to the antigen coated in the well.



## Test Procedure



## Product Information

Detection Sample: Meat, egg and seafood

Storage: 2-8°C, keep away from sunlight and moisture.

Shelf life: 12 months.

For the specific detection samples, please refer to the user instructions or consult your sales representative.



# Product List

## Veterinary Drugs

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME01AER	Chloramphenicol ELISA Test Kit	0.02	96T	Meat, Seafood, Liver, Egg, Swine urine, Feeds
ME03AER	Furazolidone Metabolite ELISA Test Kit	0.03	96T	Meat, Seafood, Liver, Egg
ME04AER	Furaltadone Metabolite ELISA Test Kit	0.05	96T	Meat, Seafood, Liver, Egg
ME05AER	Furacilin Metabolite ELISA Test Kit	0.03	96T	Meat, Seafood, Liver, Egg
ME06AER	Furantoin Metabolite ELISA Test Kit	0.5	96T	Meat, Seafood, Liver, Egg
ME07BER	Quinolones ELISA Test Kit	0.2	96T	Meat, Seafood, Liver, Egg
ME07CER	Quinolones ELISA Test Kit	0.05	96T	Meat, Seafood, Liver, Egg
ME08BER	Sulfonamides ELISA Test Kit	0.5	96T	Meat, Seafood, Serum
ME08CER	Sulfonamides ELISA Test Kit	0.5	96T	Meat, Seafood, Liver, Egg, Swine urine
ME09AER	Tetracyclines ELISA Test Kit	0.2	96T	Meat, Seafood, Liver, Egg
ME10AER	Streptomycin ELISA Test Kit	0.2	96T	Meat, Seafood, Liver
ME11CER	Ofloxacin ELISA Test Kit	0.06	96T	Meat, Seafood, Liver
ME15AER	Olaquinox Metabolite ELISA Test Kit	0.1	96T	Meat, Seafood
ME19AER	Trimethoprim ELISA Test Kit	0.5	96T	Meat, Seafood, Egg
ME24BER	Amantadine ELISA Test Kit	0.5	96T	Meat
ME33AER	Nitroimidazoles ELISA Test Kit	0.2	96T	Meat, Seafood, Egg
ME34AER	Florfenicol ELISA Test Kit	0.05	96T	Meat, Seafood, Egg, Feeds
ME35AER	Lincomycin ELISA Test Kit	0.2	96T	Meat, Seafood
ME38AER	Gentamicin ELISA Test Kit	0.2	96T	Meat, Seafood
ME41AER	Tilmicosin ELISA Test Kit	0.5	96T	Meat
ME43AER	Thiamphenicol ELISA Test Kit	1	96T	Seafood, Meat, Egg
ME45AER	Nicarbazine residual marker ELISA Test Kit	0.05	96T	Meat
ME46AER	Olaquinox ELISA Test Kit	0.5	96T	Feeds
ME40AER	Neomycin ELISA Test Kit	0.3	96T	Meat, Honey
ME60AER	Tylosin ELISA Test Kit	0.5	96T	Meat
ME52BER	Diclazuril ELISA Test Kit	1	96T	Meat, Feeds
ME69AER	Ceftiofur ELISA Test Kit	1	96T	Meat
ME42AER	Amoxicillin ELISA Test Kit	0.2	96T	Animal tissue, Egg

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME68BER	Colistin Sulfate ELISA Test Kit	1	96T	Animal tissue
ME13AER	Oxytetracycline ELISA Test Kit	0.3	96T	Animal tissue, Egg
ME14AER	Doxycycline ELISA Test Kit	0.2	96T	Animal tissue, Egg
ME40BER	Neomycin ELISA Test Kit	0.1	96T	Animal tissue
ME11AER	Enrofloxacin ELISA Test Kit	0.2	96T	Animal tissue, Egg
ME11GER	Enrofloxacin ELISA Test Kit	0.05	96T	Meat
ME08DER	Sulfamethazine ELISA Test Kit	0.25	96T	Meat, liver, kidney, feed, milk, milk powder, Serum/Plasma, Urine
SC0087	Sulfonamides ELISA Test Kit	0.5	96T	Meat, Seafood, Serum
ME19BER	Trimethoprim ELISA Test Kit	0.5	96T	Meat, Seafood, Egg
ME11BER	Ciprofloxacin ELISA Test Kit	0.05	96T	Animal tissue, Egg
ME11HER	Flumequine ELISA Test Kit	1	96T	Meat, Seafood
Unified pretreatment of 11 products				
ME07E1ER	Quinolones ELISA Test Kit	0.5	96T	Meat
ME08EER	Sulfonamides ELISA Test Kit	0.5	96T	Meat
ME09EER	Tetracyclines ELISA Test Kit	0.5	96T	Meat
ME15EER	Olaquinox Metabolite ELISA Test Kit	0.2	96T	Meat
ME19EER	Trimethoprim ELISA Test Kit	1	96T	Meat
ME24EER	Amantadine ELISA Test Kit	0.5	96T	Meat
ME34EER	Florfenicol ELISA Test Kit	0.1	96T	Meat
ME41EER	Tilmicosin ELISA Test Kit	0.5	96T	Meat
ME43EER	Thiamphenicol ELISA Test Kit	1	96T	Meat
ME45EER	Nicarbazine residual marker ELISA Test Kit	0.05	96T	Meat
ME11EER	Ofloxacin ELISA Test Kit	0.06	96T	Meat
Unified pretreatment of 5 products				
ME01DER	Chloramphenicol ELISA Test Kit	0.02	96T	Meat, Seafood, Bullfrog
ME03DER	Furazolidone Metabolite ELISA Test Kit	0.03	96T	Meat, Seafood, Bullfrog
ME04DER	Furaltadone Metabolite ELISA Test Kit	0.05	96T	Meat, Seafood, Bullfrog
ME05DER	Furacilin Metabolite ELISA Test Kit	0.03	96T	Meat, Seafood, Bullfrog
ME06DER	Furantoin Metabolite ELISA Test Kit	0.05	96T	Meat, Seafood, Bullfrog



## Illegal Additives

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME02ER	Malachite Green ELISA Test Kit	0.03	96T	Seafood, Water
ME02BER	Crystal violet ELISA Test Kit	0.02	96T	Seafood, water
ME29AER	Clenbuterol ELISA Test Kit	0.1	96T	Meat, Liver, Swine urine, Swine serum, Feeds
ME30AER	Ractopamine ELISA Test Kit	0.05	96T	Meat, Liver, Swine urine, Swine serum, Feeds
ME31AER	Salbutamol ELISA Test Kit	0.1	96T	Meat, Liver, Swine urine, Swine serum, Feeds

## Hormones

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME18AER	Diethylstilbestrol ELISA Test Kit	0.1	96T	Meat, Seafood
ME23BER	Dexamethasone ELISA Test Kit	0.1	96T	Meat

## Pesticides

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME49AER	Sodium Pentachlorophenol ELISA Test Kit	0.5	96T	Meat

## Marine Toxins

Catalog No.	Product Name	Sensitivity (µg/kg)	Specification (test/kit)	Detection Sample
ME16ER	Tetrodotoxin ELISA Test Kit	2	96T	Seafood
ME17ER	Diarrhetic Shellfish Poison ELISA Test Kit	0.2	96T	Seafood
ME44AER	Microcystin ELISA Test Kit	0.15	96T	Water

## Enzymatic reaction

Catalog No.	Product Name	Sensitivity	Specification (test/kit)	Detection Sample
ME70AER	Histamine Enzymatic Assay Kit	0.5ppm	96T	Seafood
ME70BER	Histamine Enzymatic Assay Kit	1ppm	96T	Seafood, wine, and milk

# Immunoaffinity Columns

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## Features



High specificity and precision



For complex samples



# Immunoaffinity Columns

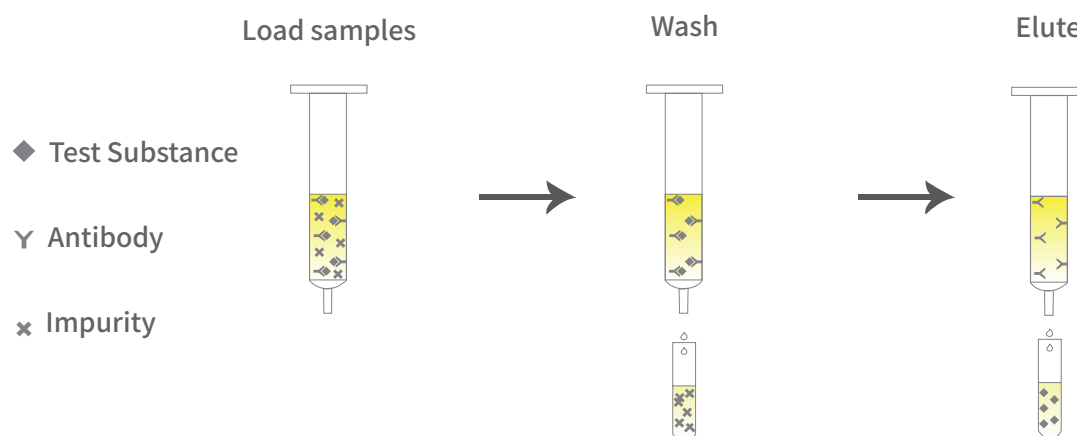
## Reaction Principle

Immunoaffinity Columns (IAC) technology are based on a specific binding of the antigen to antibody-analyte, which can be used for purification and concentration of the target substance in a sample.

Immunoaffinity columns contain a gel bed with toxin-specific antibodies coupled to the gel particles. These antibodies will capture the target substance in a sample. The impurities which are not combined with antibodies will be washed out from the column. The target substance is recovered in the eluting solution to achieve the high-efficiency purification and concentration.



Detection Sample: Dairy product



## Product List of Immunoaffinity Columns

Catalog No.	Product Name	Column Capacity (ng)	Specification	Detection Sample
QC0119	IAC for Tetrodotoxin	1000	3mL, 50T	Seafood
QC0183	IAC for Diarrhetic Shellfish Poison	400	3mL, 50T	Seafood
QC0201	IAC for Neurotoxic Shellfish Poison	1600	3mL, 50T	Seafood
QC0143	IAC for Microcystin	MC-LR: 500 MC-RR: 300	3mL, 25T	Water
QC0144	IAC for Microcystin	MC-LR 500 MC-RR 300	3mL, 50T	Water
QC0184	IAC for Olaquinox Metabolite	150	3mL, 25T	Animal originated food
QC0130	IAC for Olaquinox Metabolite	150	3mL, 50T	Animal originated food
QC0147	IAC for Aminoglycosides	2000	3mL, 25T	Animal originated food
QC0148	IAC for Aminoglycosides	2000	3mL, 50T	Animal originated food
QC0082	IAC 3-in-1 Diethylstilbestrol/Hexoestrol/Dienestrol	Diethylstilbestrol: 400 Hexoestrol: 200 Dienestrol: 100	3mL, 25T	Animal originated food
QC0083	IAC 3-in-1 Diethylstilbestrol/Hexoestrol/Dienestrol	Diethylstilbestrol: 400 Hexoestrol: 200 Dienestrol: 100	3mL, 50T	Animal originated food
QC0243	IAC for Ractopamine	500	6mL, 10T	Meat



# MicroFast<sup>®</sup> Microbial Count Plates

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## Features



Precise and consistent results



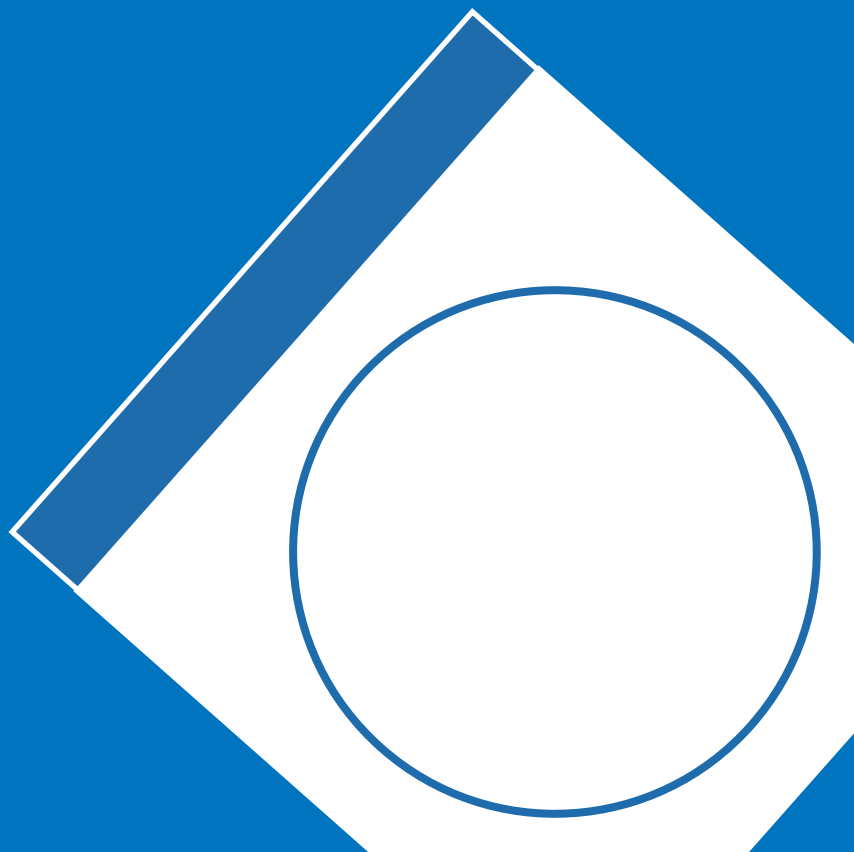
Easy operation, work efficiency



Rapid diffusion technology



Intuitive observation

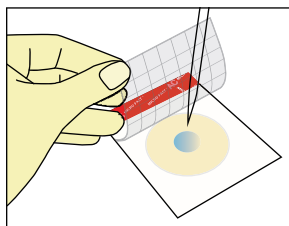


# Microbial Count Plates

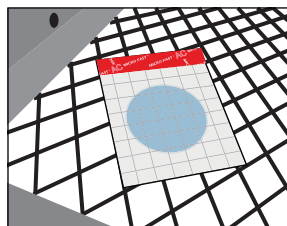
MicroFast® microbial count plate is a rapid and reliable microbial testing solutions, which can greatly improve the efficiency of laboratory testing and is widely accepted by enterprises.

## Reliable results, Only 3 Steps

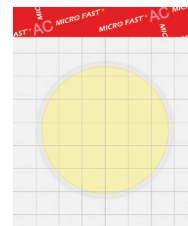
- **Inoculation** Lift the top film and add sample.
- **Incubation** Incubate the plates following the instruction.
- **Interpretation** Count the colonies.



Inoculation



Incubation



Interpretation

Catalog No.	Product Name	Specification(pieces/pack)
LR1001	Aerobic Count Plate	25
LR1002	Coliform Count Plate	25
LR1003	Yeast & Mold Count Plate	25
LR1005	<i>Staphylococcus aureus</i> Count Plate	25
LR1005Q	<i>Staphylococcus aureus</i> Confirmation Plate	25
LR1007	Coliform & <i>E. coli</i> Count Plate	25
LR1010	<i>Bacillus cereus</i> Count Plate	25
LR1011	<i>Enterobacteriaceae</i> Count Plate	25

# Instruments

## BMZ6000 Portable Strip Reader

- Small and portable
- Fast detection and stable operation
- Large capacity memory
- Thermal print function
- LCD touch screen, Android operating system, user-friendly



## HF4500 Microplate Reader

- High definition display, small size
- Support TF card to expand memory
- WiFi module, connection to the laboratory information system supported
- The board can be arranged in rows, which is efficient and convenient
- Android operating system, mouse operation, keyboard operation and independent offline-work supported







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