



*Committed to safeguarding
global food health*

Meizheng Bio-Tech Company Overview



MISSION

*Committed to Safeguarding
Global Food Health !*

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01 Company Overview

PerkinElmer at A Glance

HEADQUARTERS: WALTHAM, MA

EIGHT DECADES OF INNOVATION

MEMBER OF THE S&P 500

OPERATIONS IN OVER 190 COUNTRIES

38%

THE AMERICAS

28%

EUROPE

34%

ASIA PACIFIC

GLOBAL TECHNOLOGY LEADER

14,000 EMPLOYEES

\$3.8 BILLION IN REVENUE

\$12.5 BILLION ENTERPRISE VALUE

www.mzfoodtest.com

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Meizheng Joining PerkinElmer



PerkinElmer enables scientists, researchers and clinicians to address their most critical challenges across science and healthcare. With a mission focused on *Innovating for a healthier world*, we deliver unique solutions to serve the diagnostics, life sciences, food and applied markets. We strategically partner with customers to enable earlier and more accurate insights supported by deep market knowledge and technical expertise. Our dedicated team of about 14,000 employees worldwide is passionate about helping customers work to create healthier families, improve the quality of life, and sustain the well-being and longevity of people globally.

In 2019, Meizheng was incorporated into PerkinElmer, and has further expanded overseas network since then.

Three Business Segments



Food Safety Rapid Test



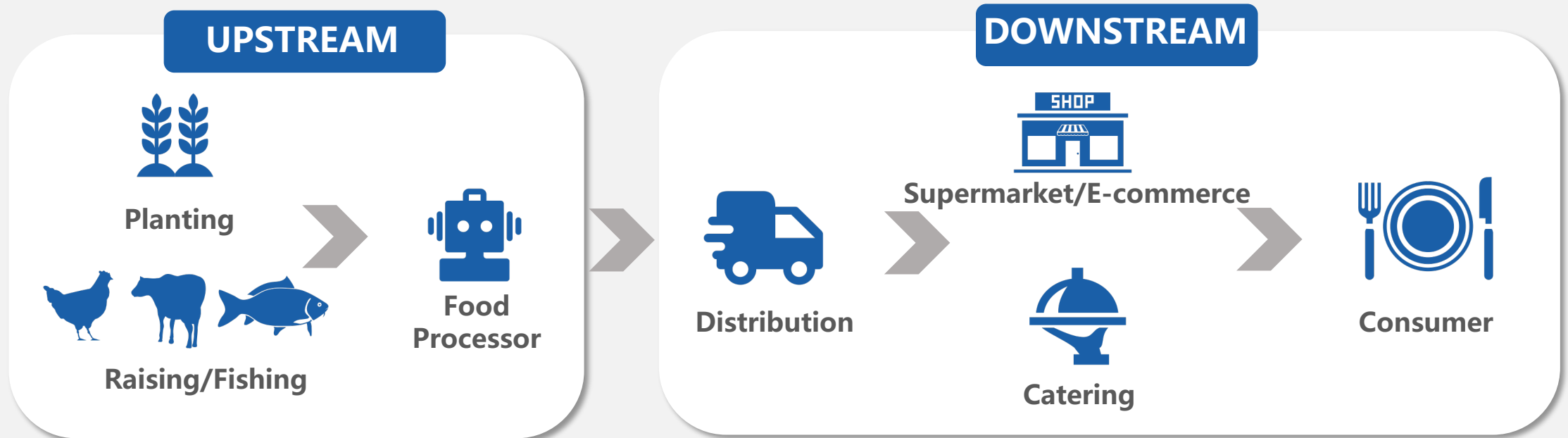
Microbiology Test



Laboratory Test

Food Safety Integrated Solution

ENSURE EVERY LINK OF FOOD SAFETY FROM FARM TO TABLE !



Covering a Variety of Food Safety Areas

Meizheng provides rapid and precise test solutions in various industries, covering **Grain & Feed, Dairy, Meat, Seafood, Processed Food, Vegetables & Fruit**, etc.

EVERY YEAR



We monitor the safety of **80 million** tons of grain in China



We monitor the safety and quality of **6 million** tons of raw milk in China



We test the breeding and processing procedures of **16 million** tons of livestock, poultry and seafood in China

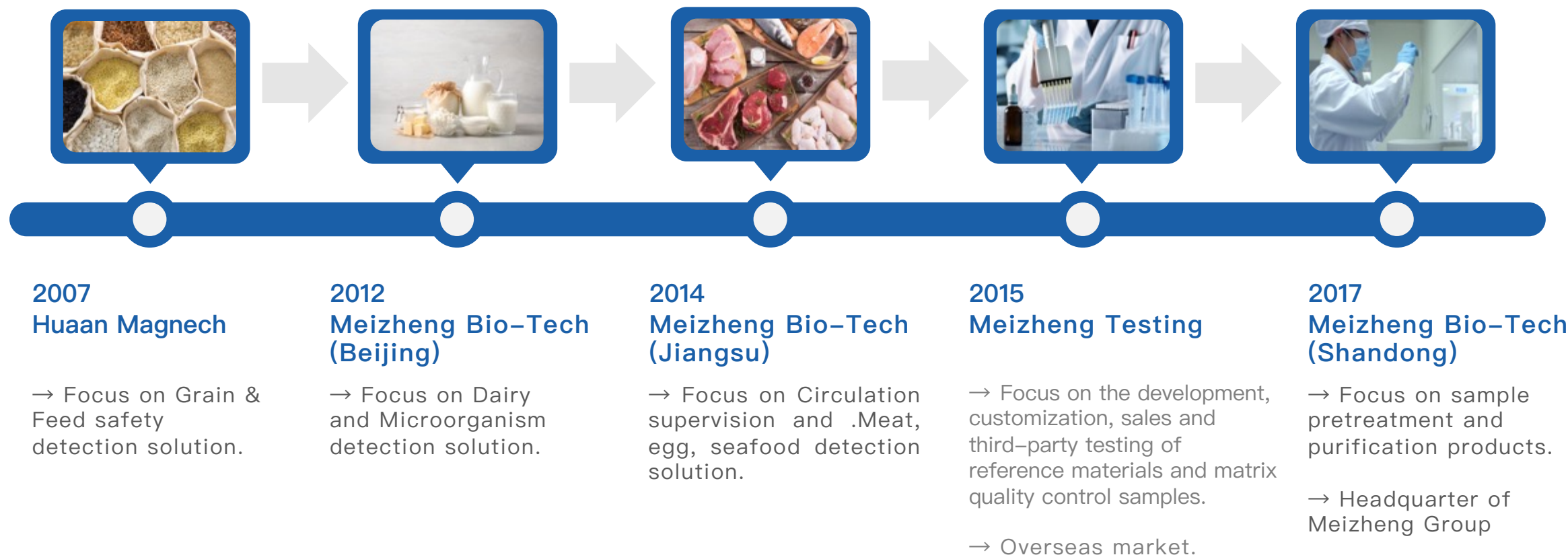


Items	Grain & Feed	Processed Food	Dairy	Seafood	Meat	Vegetable & Fruit
Heavy Metal	✓		✓	✓	✓	✓
Biotoxin	✓	✓	✓	✓		✓
Microbiology		✓	✓	✓	✓	✓
Drug Residue	✓	✓	✓	✓	✓	✓
Illegal Additives		✓	✓		✓	
Nutrients			✓		✓	

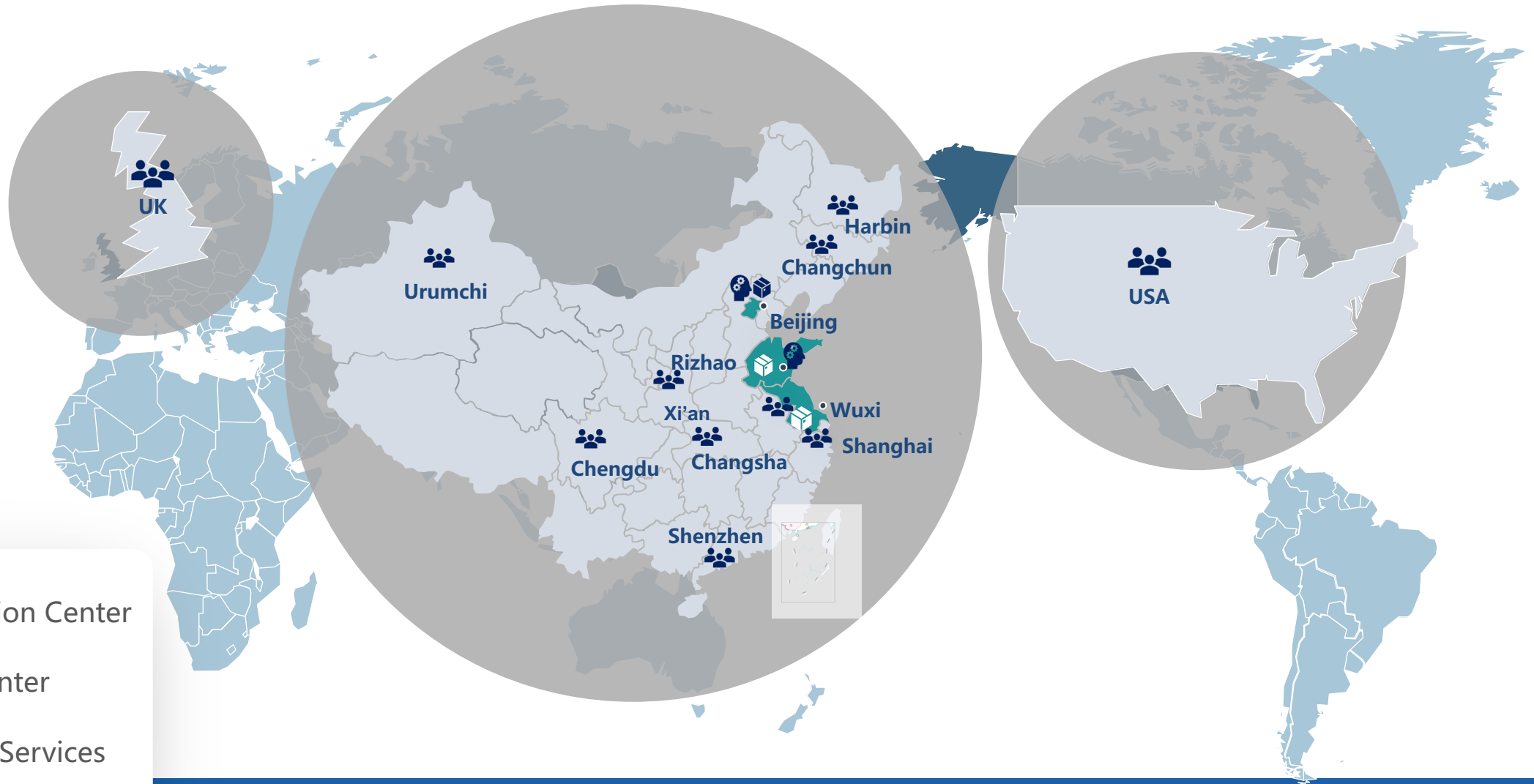
Rapid Test Solution
Laboratory Test Solution




Development

Established in **2007**, Meizheng is one of the first companies to entered the food safety field.



Global Footprint



-  Production Center
-  R&D Center
-  Sales & Services

1 third party testing lab **4** plants **5** tier 1 testing labs **7** confirmatory labs
Build several R&D labs in **Beijing, Tianjin, Wuxi, Rizhao** and **Qingdao**

Overseas Sales Network

Provide test products and services in more than 50 countries



Expand to the overseas market
since 2015

Sales network covers :

- ✓ **Asia:** India, Korea, Japan, Singapore, Vietnam, Thailand, Indonesia, Pakistan, etc.
- ✓ **CIS:** Russia, Belarus, Ukraine, Kazakhstan, etc.
- ✓ **ME:** Israel, The United Arab Emirates, etc.
- ✓ **EU:** UK, France, Italy, Germany, Turkey, etc.
- ✓ **LATAM:** Brazil, Argentina, Chile, Mexico, etc.
- ✓ **Africa:** Tunisia, Nigeria, Egypt, Morocco, etc.

Validation :



European validation and certification organisation

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Technology & Service Platform

Provide integrated solutions from **Rapid Test** to **Confirmation**



**Lateral Flow
Test Platform**



**ELISA
Test Platform**



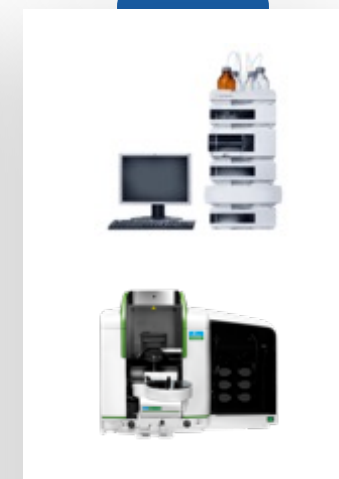
**Physicochemical
Test Platform**



**Microbiology
Test Platform**



**Lab Consumables
Platform**



**Testing Service
Platform**

OTA participated in the revision of ISO 15141:2018 international standard

80 patents and software certificates

8 Core technologies

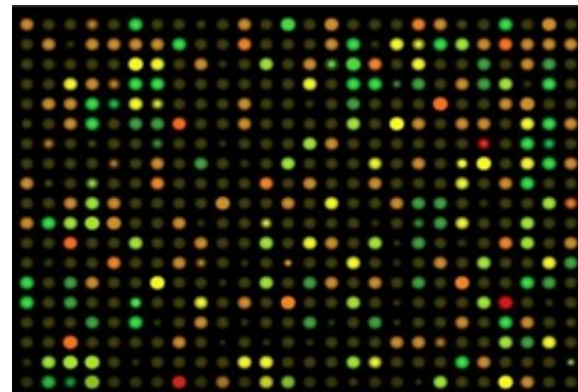
20 Scientific research projects

Technology Innovation and Scientific Research Platform

5 R&D labs

100+ Research staffs

with comprehensive background of **biology, chemistry, instruments and software**



High throughput test platform

- Microarray
- Multi-in-one test



Molecular biology test platform

- PCR

Validation Certificate/Report





02 Food Safety Rapid Test

Industry



**Grain
Feed**

1



**Dairy
Honey**

2



**Seafood
Meat
Egg**

3

We provide integrated test solution for clients in the field of **Grain & Feed** to guarantee the safety of grains and feeds.



Field Rapid Test



Lab Rapid Test



Lab Confirmatory Test

* provide integrated solutions from **Testing** to **Confirmation**

Raw materials enter the barn/feed mill
On-site grain collection

Simple operation
On-site detection



Production monitoring/
Inventory monitoring

High sensitivity
Batch processing



Positive samples confirmation/
Supervision spot-check

International standard method
Confirmatory test





Sufficient test items

- Covering 4 major indicators of grain safety: mycotoxins, heavy metals, pesticide residues and genetically modified organisms
- Covering 3 risk indicators of feed safety: mycotoxin, antibiotics and illegal addition



Numerous test samples

- Raw grain, finished grain, grain and oil products
- Feed raw materials, feed finished products

Let your test

- **More secure** process
- **More convenient** operation
- **More accurate** results



We provide instruments, reagents, technical services and solutions for users in the **dairy field** to help improve safety and quality



Timely follow up the changes of international standards, and the detection items of pesticide residues and veterinary drug residues are fully covered, including ELISA kit and colloidal gold rapid detection strip.



For nutrients, a variety of nutrient detection schemes are provided, which are suitable for laboratory detection, making the detection more accurate and convenient, so as to help enterprises improve the nutritional composition of dairy products

Test items

- Contaminants - Heavy metals, nitrites...
- Mycotoxin - Aflatoxin M₁
- Microbes - Aerobic bacterial count...
- Pesticide residues - Carbendazim, imidacloprid...
- Veterinary drug residues - Antibiotics, hormones...
- Illegal additives--- Beta-enzymes, melamine...
- Nutrients - Lactoferrin, lactalbumin, vitamins, IgG, lactoperoxidase...

Feeding

The quality and safety of dairy products is controlled from the feed. The contamination of mycotoxins in the feed, especially AFB₁, directly affects the health of dairy cattle and the quality of dairy products. [ToxinFast® Mycotoxin Test Kits](#) are suitable for daily monitoring of mycotoxins in feed factories and ranches.



Processing

Strict process control

Detection of dairy semi-finished products and finished products need quantitative test results, [various test kits and pretreatment column products](#) can meet the demand of users, be convenient for analysis and provide basis for decision-making.



Milk collection Stock inspection

Raw milk control is very important. On-site milk collection needs simple and easy-to-use detection products to quickly determine aflatoxin M₁, drug residues, hormones, heavy metals, illegal addition, adulteration and other substances in fresh milk. [Colloidal gold Rapid Test Kits](#) can effectively solve these problems.



Food supply chain Risk control

Ensure the last pass of entering the dining table and provide efficient testing solutions for the food safety and quality testing authority.



From farm to table, from feed to dairy products, from **rapid screening** to **accurate confirmation**, provide overall feed and dairy solutions.

Honey



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We provide rapid test solutions for users **in the honey field** to help improve safety and quality. 🐝



Veterinary drug residues: Nitrofurans\trimethoprim, quinolones, sulfonamides, tetracyclines...



Pesticide residues: Carbendazim, acetamiprid...

Lateral Flow Rapid Test Strip
ELISA Rapid Test Kit

*Batch samples, more convenient operation and more accurate results.

Meat/Egg/Seafood



We provide rapid test solutions for users **in the meat/seafood/egg field** to help improve safety and quality.



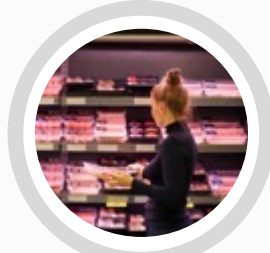
Raising/slaughter

Provide feed hygiene and safety detection in the breeding process and drug residue detection scheme in the breeding process or before slaughtering for **breeding/slaughtering enterprises**, to improve the product quality and safety in the breeding/slaughtering step.



Processing

Provide drug residue detection schemes for raw materials and finished products for **relevant processing enterprises**, so as to ensure product quality and safety during processing.



Supplying

Provide drug residue/illegal additives detection schemes for **supermarkets, restaurants, markets and government regulators** to ensure the quality and safety of products.

Rapid Test Kit (colloidal gold)



ELISA Test Kit



***In the field of seafood product detection, it can also provide biotoxin test schemes such as tetrodotoxin, shellfish toxin and microcystin.**



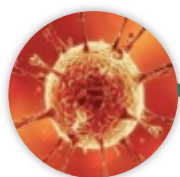
03 Microbiology Test

We provide professional overall solutions for microbiology test for users.

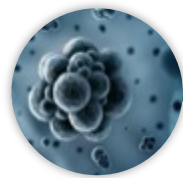
We have been focusing on the research of rapid test and identification technology of **microorganisms and their pathogenic** factors, and have successively established rapid culture technology platform, immune technology platform and molecular technology platform.



Bacteria



Virus



Bacterial
toxin



Virulence
gene



Ranch



Food
processing



Restaurant



Supermarket &
Convenience
store



Rapid Enrichment Media



Count plate, Colloidal gold test kit,
Real time PCR, ATP Hygiene
Monitoring System, etc.



Real time PCR

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Pre-enrichment

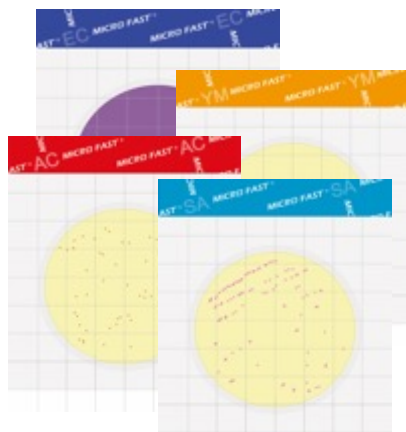
Screening, confirmation and identification only provide you with professional microbiology test solutions!

Rapid screening

Our product line covers Microbial Count Plate, Pathogen Rapid Enrichment Media, Real time PCR molecular detection system, Pathogen Rapid Test Kits, Rapid Test series of Staphylococcus aureus enterotoxin, ATP Hygiene Monitoring System and environmental sampling consumables.

Identification

Pre-enrichment



MicroFast® Microbial Count Plates deliver cost, time and space savings over traditional agar-based methods, while providing a cost effective, more sustainable alternative.

MicroFast Count Plates have obtained AOAC-PTM certificates.



Count Plate Reader
Coming Soon!



Rapid screening

PureTrust™ Intelligent Fluorescence Detector is a widely used indicator of environment hygiene. Hygiene monitoring through ATP detection can quickly obtain results and take immediate actions.

PureTrust™ Intelligent Fluorescence Detector has obtained CE certification.



Pre-enrichment

Rapid screening

Identification



- MicroFast® Real Time PCR Kit are dried for optimal simplicity of use and uniformity of results.
- Pre-packed lysis buffer and premixed solution are provided. No extra reagents required.

MicroFast® Real Time PCR provides specific primers and probes. PCR amplification is detected by Taqmanprobe which is degraded during PCR process and releases fluorophore. The PCR instrument generates the amplification curve according to the fluorescence signal intensity and qualitatively detect the target pathogens in the sample.

MicroVal validation of MicroFast® Real Time PCR Kit is in process

96 well PCR Thermal Cycler
Coming Soon!





04 Laboratory Test

Laboratory Test

Provide high-quality reference materials, quality control materials, sample pretreatment equipments and consumables for analytical laboratory workers.

Combine products and services to provide total solutions for our customers based on the third-party testing service platform.



Pretreatment consumables & equipment

A wide range of pretreatment consumables and equipment supports laboratory workers in improving work efficiency and reducing experimental errors.



Reference Standards & Quality Control Materials

The high-quality Reference Standards and Quality Control Materials are accurate to determine the value. The products pass the verification of homogeneity and stability to guarantee the quality.



Third-party testing service

Professional laboratory testing platform can provide better technical support for customers, and accurate testing technology can guarantee the high quality of products.

Laboratory Test Products

Pre-treatment Consumables



**Immunoaffinity
Column (IAC)**

**Solid phase extraction
(SPE) column**



QuEChERS

Syringe filter

Sample vials

Pre-treatment Instruments



**ASPE 480
Automatic
Immunoaffinity and
Solid Phase Extractor**

Reference Material platform



**Solid reference
materials**



**Liquid reference
materials
(single&mixed)**



**Matrix reference
materials**



**Quality control
materials**

Third-party Detection Platform



Meizheng testing has established a high standard third-party testing physical and chemical laboratory, chromatography laboratory and spectrum Laboratory, and has passed the CANS laboratory accreditation and CMA qualification, ensuring the scientificity and accuracy of the test results.



Mycotoxins detection

Grain, feed



Heavy metal detection

Grain, oil and seafood



Pesticide and veterinary residues detection

Vegetables, fruits, grain and oil, feed, meat, eggs, seafood and dairy products



Nutrients detection

Dairy products



Toxic and hazardous substances detection

Vegetables, fruits, grain and oil, feed, meat, eggs, seafood and dairy products



General component analysis

Grain and oil, dairy products



Ensure food safety and quality



Cereals - whether rice, wheat, soybeans and oils are purchased, stored or processed, Meizheng can provide rapid safety analysis of heavy metals, toxins and so on.



Dairy products - quality and safety control of raw milk, cheese, yogurt, ice cream and other whole industry chains.



Meat and seafood - provide quality and safety assurance programs from rapid screening to meeting and exceeding regulatory requirements.



Processed food - a quality and safety monitoring program covering raw materials, on-line production and final products.



***Meizheng, Committed to Safeguarding Global Food Health,
Can Provide You Integrated Food Testing Solutions from Farm to Table!***



Thank You

For Your Time