

Elabscience®

Elabscience Biotechnology Inc.



Food Safety Handbook

Keep you away from food contamination

www.elabscience.com

”
Focus on your research
Service for life science
”



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About Us

Elabscience has been committed to providing high-quality detecting products and services for the research of life science, including ELISA Kits, Biochemical Kits, Antibodies, Proteins, Cell Line, Food Safety Kits, Animal Diseases Kits and other reagents.

With products certified by ISO9001, Elabscience has grown to be a professional and efficient supplier of research reagent and a supporter for technical services, and widely recognized in the market.

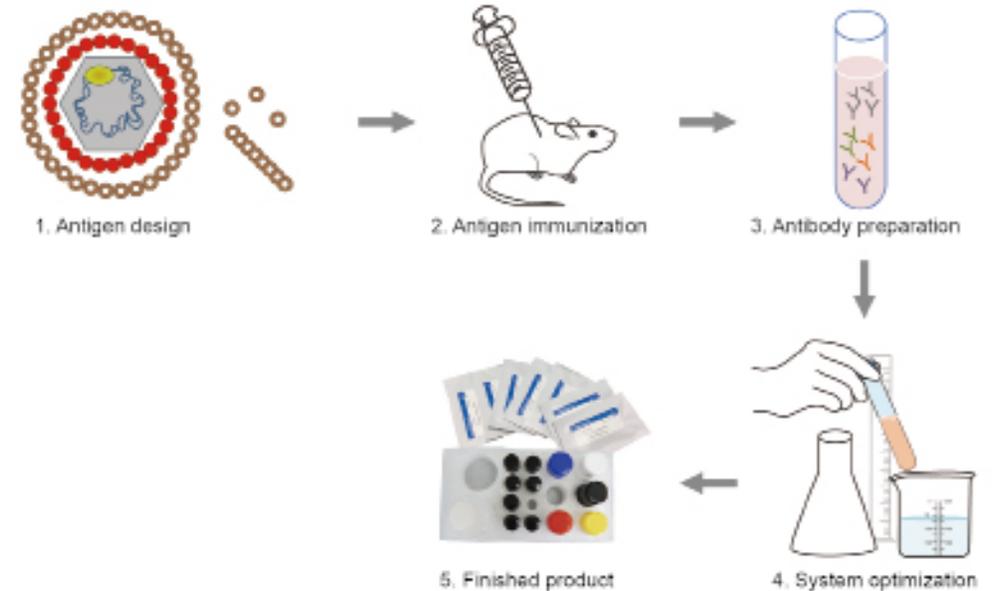


Why Choose Us



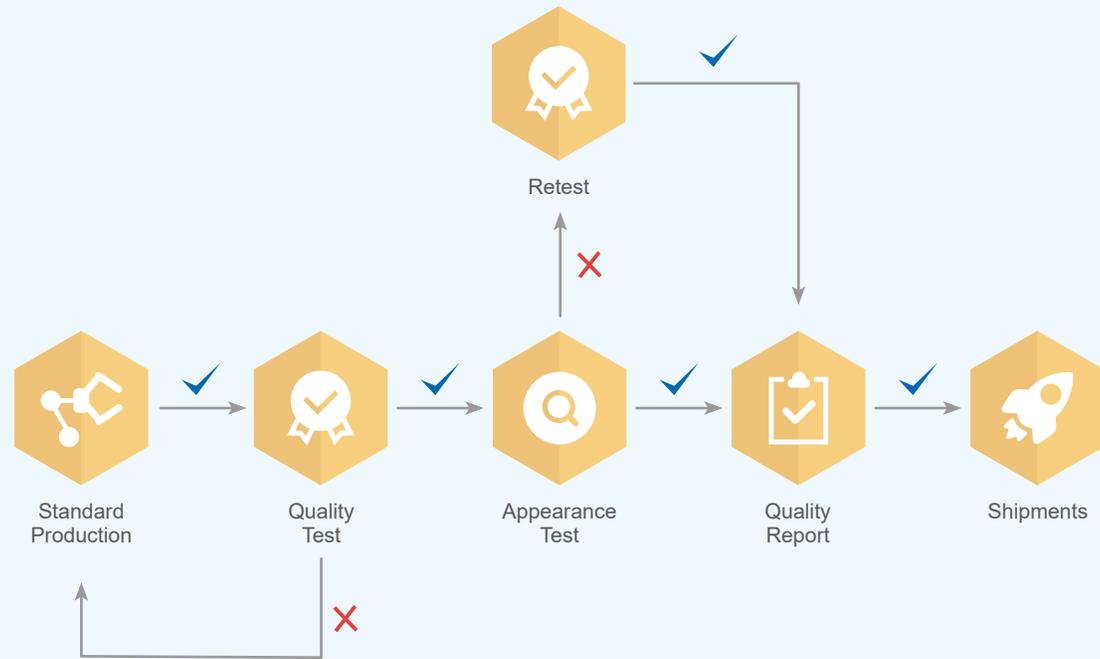
Food safety incidents are problems facing all countries in the world and are related to the health of human life. Elabscience uses its technological advantages accumulated in immunological testing to develop food safety detecting products for you.

R&D Process



Elabscience has a comprehensive R&D and production center covering an area of 1000 square meters. The whole production process follows the GMP management, and the whole process is closely monitored to ensure product quality.

QC process



Service Advantage

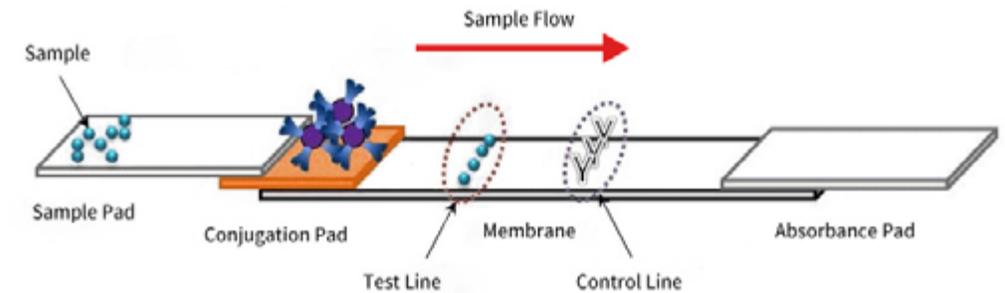


Detection Methods

Immune Colloidal Gold Technique



- Fast:** 10-20 minutes for a single sample.
- Efficient:** Multiple targets can be detected simultaneously.
- Convenient:** The result is visual, no need for professional training.
- Accurate:** The false positive rate of test card is below 6%.



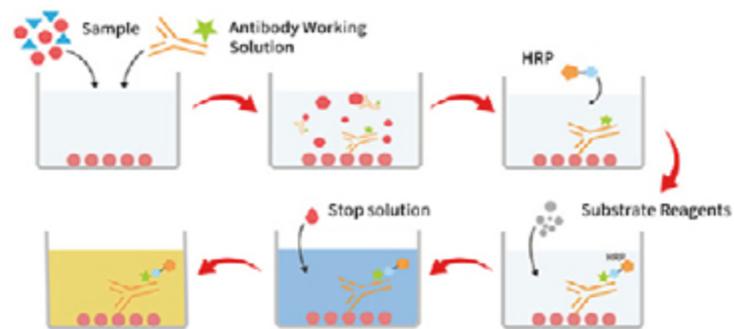
Application Situation:

This method can be used to qualitatively analyze and judge whether the target exists or not, and is generally applicable to the early screening of positive samples.

► Enzyme-Linked ImmunoSorbent Assay, ELISA



- 📄 The CV value of standards is below 10%.
- 📄 High sensitivity and specificity.
- 📄 The test result is accurate and the instrument is standardized.
- 📄 The detection time of the same batch of samples is 1-2 hours.



📄 Application Situation:

This method can be used to determine the specific value of the target qualitatively or quantitatively, and is generally applicable to the early screening or later confirmation of target content.

▮ Mycotoxins



📄 Toxin Introduction

Given suitable environment, fungus can grow into colonies rapidly. It also produces toxins as by-products, which are harmful to grains and feeds as well as by-products of the livestock industry when spread, such as milk, eggs and the like. Fungal infections cause the decline of the immune effect of livestock and poultry, mildewing in grains. They may even have carcinogenic effects on human. Aflatoxin, vomitoxin, fumonisin, ochratoxin, T-2/HT-2 toxin, and zearalenone are substances that have been proven to be detrimental to the health.

Application Examples

DON(Deoxynivalenol) Rapid Test Kit

Deoxynivalenol mainly pollutes cereals and grain products such as wheat, barley, corn, etc. After people and animals eating cereals contaminated by the toxin by mistake, it can produce a wide range of toxic effects, leading to acute poisoning symptoms such as anorexia, vomiting, diarrhea, fever, standing instability, slow reaction, etc. In serious cases, it can damage hematopoietic system and cause death. Vomitoxin is a highly toxic or medium toxic substance, which has a certain accumulation in animals and has strong cytotoxicity. It is classified by the EU as a group 3.

Detection Process:



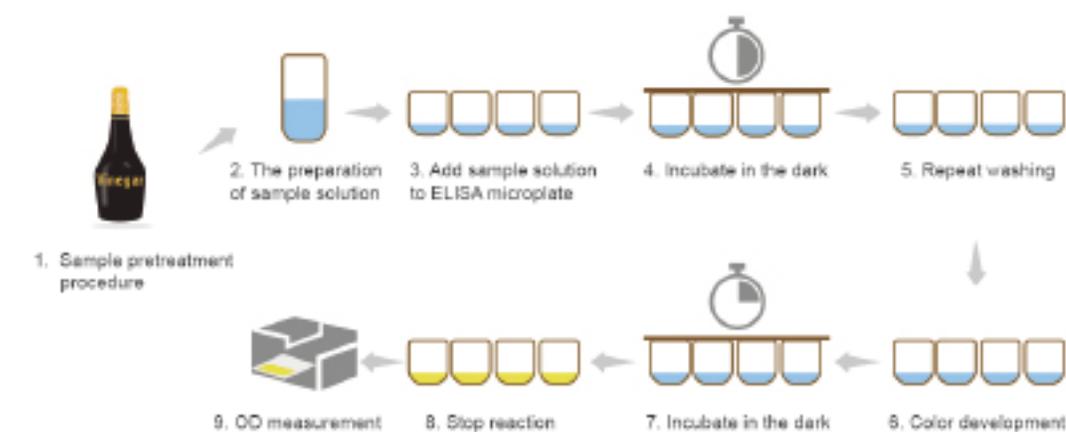
Product Features:

- Applying the principle of colloidal gold immunochromatographic test. It can detect DON toxin in all kinds samples, such as grain, fodder, etc.
- The false negative rate of test card is 0, multiple targets can be detected simultaneously.
- Fast detection, 8-10 minutes for a single sample.

AFB1(Aflatoxin B1) ELISA Kit

Aflatoxin (B1) comes from moldy feed, grains and nuts and can enter the human body through the food chain. Aflatoxin is classified as a group 1 carcinogen by the World Health Organization. It is a highly toxic substance that can cause cancer diseases such as esophagus cancer, gastric cancer and liver cancer. Aflatoxin is the focus of monitoring all over the world.

Detection Process:



Product Features:

- Apply the principle of enzyme-linked immunoassay (ELISA) to detect AFB1 toxin of grain, peanut, formula feed, wine, spice, etc.
- The CV value of standards in the ELISA kit is below 10%.
- LOD (limit of detection) can achieve ng level.
- The result is accurate and the instrument is standardized.

EU/FDA Maximum Levels

Product Name	EU Maximum Levels	FDA Maximum Levels
DON(Deoxynivalenol)	Unprocessed cereals other than durum wheat, oats and maize: 1250 ppb Unprocessed durum wheat and oats: 1750 ppb Feed raw materials and their products: 8000ppb Corn by-product: 1200ppb; Formula feed: 5000ppb Formula feed(Swine): 900ppb Formula feed(Calf/Lamb): 2000ppb	Finished wheat products(Flour, Bran and Germ): 1000ppb All grains, grain by-products(Ruminating Beef, Feedlot Cattle,and Chickens): 5000ppb total diet All grains, grain by-products (swine): 1000ppb total diet All grains, grain by-products(all other animals): 2000ppb total diet
AFM1(Aflatoxin M1)	Liquid milk/powdered milk(exception infant food): 0.05ppb	Milk: 0.5ppb
AF(Aflatoxin)	Groundnuts (subject to treating before consumption): 15 ppb Corn (subject to treating before consumption): 10 ppb Nuts (subject to treating before consumption): 10 ppb Groundnuts and nuts(direct human consumption): 4ppb Cereals and products derived: 4ppb Baby foods and cereals intended for infants:0.1ppb	All foods except milk: 20ppb All feed (exceptions below): 20ppb reeding cattle, breeding swine, mature poultry(corn) 100 ppb Finishing swine (>100 lbs.)(Corn): 200 ppb Finishing beef cattle(Corn): 300 ppb Finishing beef cattle, swine, poultry(Cottonseed meal): 300 ppb
OTA (Ochratoxin A)	Unprocessed cereals: 5 ppb Processed cereals intended for direct human consumption: 3.0 ppb Baby foods and cereals intended for infants: 0.5 ppb Feed raw materials: 250ppb Feed(pig): 50ppm Feed(poultry): 100ppm	

Note:

1. Maximum Levels limits according to follow the standards of different countries, if there is any discrepancy, please refer to the latest standards
2. European Union, EU
3. U.S. Food and Drug Administration, FDA

 [Elabscience assay kits meet the limit requirements of the above standards. See Products Specification for details.](#)

Toxic and Harmful Substances



Harm Introduction

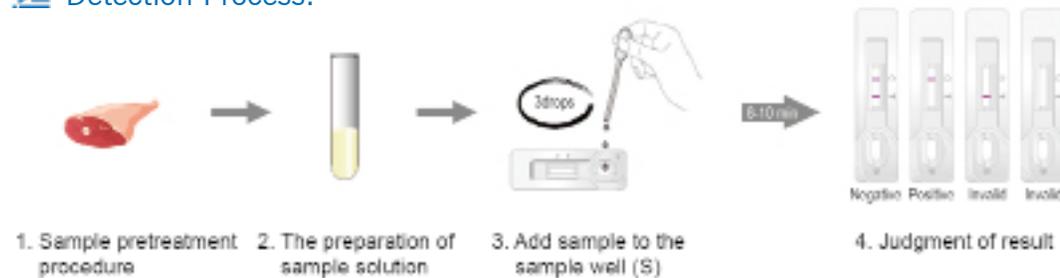
WHO statistics reveal that food transmission contributes to over 200 diseases each year. One in 10 people worldwide suffer from diseases caused by eating contaminated food every year, resulting in 420,000 deaths. Toxins in the nature, pollutants, pesticides, improper use of food additives as well the abuse of chemicals to treat animal diseases not only jeopardize our health, but also harm the trade and economy in various countries.

Application Examples

SAs (Sulfonamides) Rapid Test Kit

Sulfonamides are a kind of synthetic antibacterial drugs, which have good therapeutic effects on bacterial diseases and coccidiosis in the digestive tract of livestock and poultry. Long-term use of sulfonamides can cause, thrombocytopenia, allergic reactions, injuries to the urinary and digestive system and lead to drug resistance of bacteria.

Detection Process:



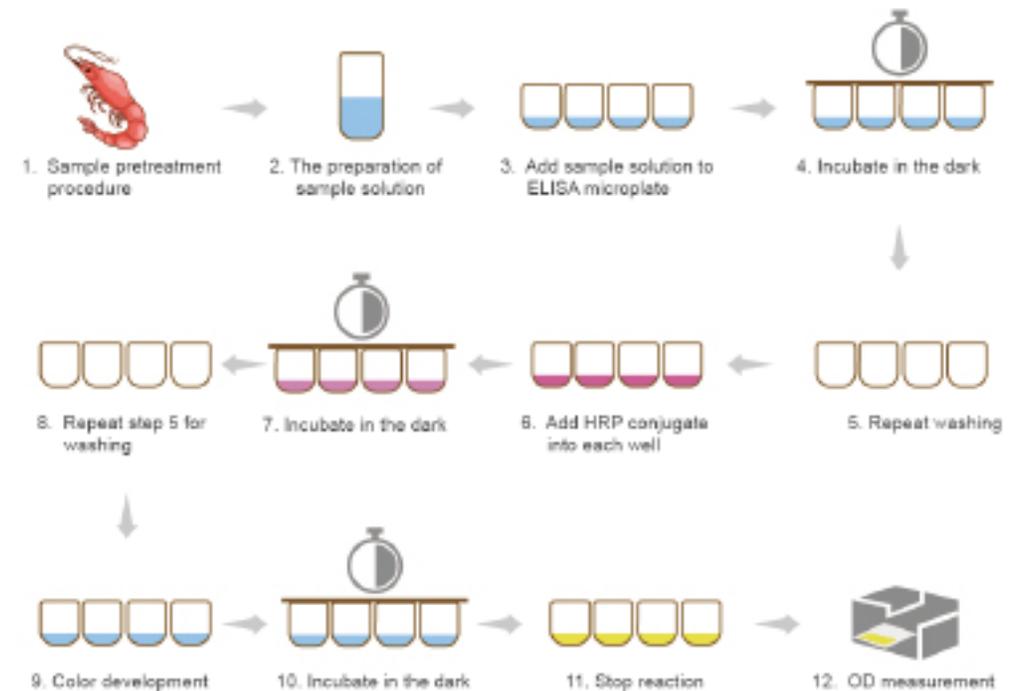
Product Features:

- Applying the principle of colloidal gold immunochromatographic test. It can detect sulfonamides in all kinds samples, such as tissue, honey, milk, etc.
- The false negative rate of test card is 0, multiple targets can be detected simultaneously.
- Fast detection, 8-10 minutes for a single sample.

MG (Malachite Green) ELISA Kit

Malachite Green oxalate is a toxic triphenylmethane chemical, both a dye and a fungicide, and can be used to treat parasitic, fungal or bacterial infection of fish or fish eggs. It has been widely used in the prevention and treatment of saprolegniasis, branchiomycosis and ichthyophthirius in various aquatic animals. However, malachite green and its metabolite, leucomalachite green, will produce high residues in aquatic products. It is easy to cause side effects such as carcinogenic, teratogenic and mutagenic after human consumption. The European Union, the United States and some East Asian countries have banned malachite green as an antifungal drug for fishing.

Detection Process:



Product Features:

- Applying the principle of enzyme-linked immunoassay (ELISA) to detect Malachite Green (MG) of fish, shrimp, etc.
 - The CV value of standards in the ELISA kit is below 10%.
 - LOD (limit of detection) can achieve ng level.
- The result is accurate and the instrument is standardized.

Product Name	CAC Maximum Levels	EU Maximum Levels	FDA Maximum Levels
AMOZ (Furaltadone Metabolite)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
AOZ (Furazolidone Metabolite)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
AHD (Aminohydantoin Hydrochloride)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
SEM (Nitrofurazone Metabolite)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
MG (Malachite Green)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
RAC (Ractopamine)	Mammalian liver:40ppb Mammalian kidney:90ppb Mammalian fat / muscle:10ppb	Animal food/Honey: Not Detected	Muscle(cattle): 90ppb liver(cattle): 30ppb Muscle(swine): 50ppb liver(swine): 150ppb Muscle(turkey): 100ppb liver(turkey): 450ppb
CLE (Clenbuterol)	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected	Animal food/Honey: Not Detected
MEL (Melamine)	Infant formula food: 1000ppb Infant formula food(liquid): 1500ppb Other Food: 2500ppb	Infant formula food: 1000ppb Infant formula food(liquid): 1500ppb Other Food: 2500ppb	Infant food: Not Detected other Food: 2500ppb
CAP (Chloramphenicol)	Animal food:: Not Detected	Animal food/Honey: Not Detected	Honey:0.3ppb; Animal food: Not Detected
SAs (Sulfonamides)		Animal food: 100ppb	Animal food: 100ppb

Note:

1. Maximum Levels limits according to follow the standards of different countries, if there is any discrepancy, please refer to the latest standards
2. Not Detected: numerical analysis is less than the method detection limit
3. Codex Alimentarius Commission, CAC
4. European Union, EU
5. U.S. Food and Drug Administration, FDA

 Elabscience assay kits meet the limit requirements of the above standards. See [Products Specification](#) for details.

Products Specification

Products Specification of Mycotoxins

Category	Cat.No.	Product Name	Sensitivity	Sample Type	Product Type	Size
Aflatoxin	E-TO-C001	AFB1(Aflatoxin B1) Rapid Test Kit	2 ppb	Grain, Feed, Oil	Colloidal gold	50T
	E-TO-C005	AF(Total Aflatoxin) Rapid Test Kit	1 ppb	Grain, Feed, Oil	Colloidal gold	50T
	E-TO-C006	AFB1(Aflatoxin B1) Rapid Test Kit	1 ppb	Grain, Feed, Oil	Colloidal gold	50T
	E-TO-C009	AFM1(Aflatoxin M1) Rapid Test Kit	0.1ppb	Milk	Colloidal gold	50T
	E-TO-E006	AF(Total Aflatoxin) ELISA Kit	0.02 ppb	Grain, Formula feed, Edible oil, Peanut, Sauce, Wheat, Barley feed, Beer, Wine, Soy sauce, Vinegar	Colloidal gold	50T
	E-TO-E007	AFM1(Aflatoxin M1) ELISA Kit	0.05 ppb	Milk	Colloidal gold	50T
	E-TO-E008	AFB1(Aflatoxin B1) ELISA Kit	0.03 ppb	Grain, Formula feed, Edible oil, Peanut, Sauce, Wheat, Barley feed, Beer, Wine, Soy sauce, Vinegar	ELISA	96T
	E-TO-E012	AFM1(Aflatoxin M1) ELISA Kit	0.05 ppb	Urine	ELISA	96T
Fumonisin	E-TO-C010	FB1(Fumonisin B1) Rapid Test Kit	100ppb	Grain, Feed,	Colloidal gold	50T
	E-TO-E005	FB1(Fumonisin B1) ELISA Kit	0.5 ppb	Maize, Feed, Edible oil	ELISA	96T
	E-TO-C003	DON(Deoxynivalenol) Rapid Test Kit	50 ppb	Grain, Feed, Oil	Colloidal gold	50T
	E-TO-E003	DON(Deoxynivalenol) ELISA Kit	3 ppb	Grain, Feed	ELISA	96T
	E-TO-E011	DON(Deoxynivalenol) ELISA Kit	10 ppb	Grain, Feed	ELISA	96T
Zearalenone	E-TO-C002	ZEN(Zearalenone) Rapid Test Kit	10 ppb	Grain, Feed, Oil	Colloidal gold	50T
	E-TO-E002	ZEN(Zearalenone) ELISA Kit	0.3 ppb	Grain, Formula feed	ELISA	96T
T-2 Toxin	E-TO-C012	T-2(T-2 Toxin) Rapid Test Kit	10ppb	Grain, Feed	Colloidal gold	50T
	E-TO-E004	T-2(T-2 Toxin) ELISA Kit	0.05 ppb	Peanut, Maize, Oat, Soybean, Feed, Wheat	ELISA	96T
Ochratoxin A	E-TO-C011	OTA (Ochratoxin A) Rapid Test Kit	5ppb	Grain, Feed	Colloidal gold	50T
		OTA (Ochratoxin A) ELISA Kit	1 ppb	Grain, Feed	ELISA	96T

Products Specification of Toxic and Harmful Substances

Category	Cat.No.	Product Name	Sensitivity	Sample Type	Product Type	Size
β-agonists	E-FS-C006	CLE (Clenbuterol) Rapid Test Kit	3 ppb	Urine, Tissue, Feed	Colloidal gold	50T
	E-FS-C016	CLE-RAC-SAL (Clenbuterol-Ractopamine-Salbutamol) Rapid Test Kit	3 ppb/3 ppb/5 ppb	Urine, Tissue, Feed	Colloidal gold	40T
	E-FS-C017	CLE-RAC-SAL (Clenbuterol-Ractopamine-Salbutamol) Rapid Test Kit	2 ppb/3 ppb/3 ppb	Urine, Feed	Colloidal gold	40T
	E-FS-E014	CLE (Clenbuterol) ELISA Kit	0.1 ppb	Urine, Tissue, Feed	ELISA	96T
	E-FS-E025	CLE (Clenbuterol) ELISA Kit	0.05 ppb	Urine, Tissue, Feed	ELISA	96T
	E-FS-C010	SAL (Salbutamol) Rapid Test Kit	5 ppb	Urine, Tissue, Feed	Colloidal gold	50T
	E-FS-E017	SAL (Salbutamol) ELISA Kit	0.1 ppb	Urine, Tissue, Feed	ELISA	96T
	E-FS-C008	RAC (Ractopamine) Rapid Test Kit	3 ppb	Urine, Tissue, Feed	Colloidal gold	50T
	E-FS-E012	RAC (Ractopamine) ELISA Kit	0.1 ppb	Urine, Tissue, Liver, Feed	ELISA	96T
	E-FS-E026	CIM (Cimaterol) ELISA Kit	0.3 ppb	Urine, Tissue, Feed	ELISA	96T
	E-FS-C011	PHEA (Phenylethanolamine A) Rapid Test Kit	3 ppb	Urine	Colloidal gold	50T
	E-FS-E015	PHEA (Phenylethanolamine A) ELISA Kit	0.1 ppb	Urine, Tissue, Feed	ELISA	96T
	E-FS-C028	SAs (Sulfonamides) Rapid Test Kit	5 ppb(SM2)	Tissue, Honey, Milk	Colloidal gold	50T
	E-FS-C033	SAs (Sulfonamides) Rapid Test Kit	2 ppb(SDZ)	Tissue	Colloidal gold	40T
	Sulfonamides	E-FS-E021	SMZ (Sulfamethoxazole) ELISA Kit	0.1 ppb	Tissue, Serum, Urine, Egg, Honey, Milk, Feed,	ELISA
E-FS-E037		SAs (Sulfonamides) ELISA Kit	0.5 ppb	Tissue, Serum, Urine, Egg, Honey, Milk, Water sample	ELISA	96T
E-FS-E038		SAs (Sulfonamides) ELISA Kit	0.5 ppb	Tissue, Serum, Urine, Egg, Honey, Milk	ELISA	96T
E-FS-E039		SAs (Sulfonamides) ELISA Kit	0.5 ppb	Tissue, Serum, Urine, Honey, Milk	ELISA	96T
E-FS-E040		SAs (Sulfonamides) ELISA Kit	0.1 ppb	Tissue, Serum, Urine, Egg, Honey, Milk, Feed	ELISA	96T
E-FS-E043		SM2 (Sulfamethazine) ELISA Kit	0.5 ppb	Tissue, Serum, Honey, Milk, Egg, , Urine	ELISA	96T
E-FS-E049		SAs (Sulfonamides) ELISA Kit	0.5 ppb	Tissue, Serum, Urine, Honey, Milk	ELISA	96T
E-FS-E050		SQX (Sulfaquinoxaline) ELISA Kit	0.5 ppb	Tissue, Serum, Urine, Honey, Milk, Feed	ELISA	96T
E-FS-E051		SMM (Sulfamonomethoxine) ELISA Kit	0.05 ppb	Tissue, Serum, Urine, Honey, Milk	ELISA	96T
E-FS-E052		SMD (Sulfametoxydiazine) ELISA Kit	0.05 ppb	Tissue, Serum, Urine, Honey, Milk	ELISA	96T
E-FS-E020		TMP (Trimethoprim) ELISA Kit	0.03 ppb	Feed, Tissue, Serum, Urine, Plasma	ELISA	96T
E-FS-E023		TMP (Trimethoprim) ELISA Kit	0.015 ppb	Feed, Tissue, Serum, Urine, Plasma	ELISA	96T
E-FS-C001		AMOZ (Furaltadone Metabolite) Rapid Test Kit	1 ppb	Honey, Tissue, Casing, Liver	Colloidal gold	50T
E-FS-C002		AOZ (Furazolidone Metabolite) Rapid Test Kit	1 ppb	Honey, Tissue, Casing, Liver	Colloidal gold	50T
Nitrofurans& their metabolites		E-FS-C003	AHD (Aminohydantoin Hydrochloride) Rapid Test Kit	1 ppb	Honey, Tissue, Casing, Liver	Colloidal gold
	E-FS-C004	SEM (Nitrofurazone Metabolite) Rapid Test Kit	1 ppb	Honey, Tissue, Casing, Liver	Colloidal gold	50T
	E-FS-E002	AMOZ (Furaltadone Metabolite) ELISA Kit	0.05 ppb	Tissue, Liver, Honey, Milk(liquid/powder), Casing, Egg powder, Feed, Fish, Shrimp	ELISA	96T
	E-FS-E003	AOZ (Furazolidone Metabolite) ELISA Kit	0.05 ppb	Tissue, Liver, Milk(liquid/powder), Egg powder, Feed, Honey, Casing	ELISA	96T

Category	Cat.No.	Product Name	Sensitivity	Sample Type	Product Type	Size
Nitrofurans& their metabolites	E-FS-E004	AHD (Aminohydantoin Hydrochloride) ELISA Kit	0.02 ppb	Tissue, Liver, Milk(liquid/powder), Egg powder, Feed, Honey, Casing	ELISA	96T
	E-FS-E005	SEM(Nitrofurazone Metabolite) ELISA Kit	0.05 ppb	Tissue, Liver, Milk(liquid/powder), Egg powder, Feed, Honey, Casing	ELISA	96T
Quinolones	E-FS-C027	QNs (Quinolones) Rapid Test Kit	0.5 ppb(ENR)	Tissue, Honey	Colloidal gold	50T
	E-FS-C034	QNs (Quinolones) Rapid Test Kit	2 ppb(ENR)	Tissue	Colloidal gold	40T
	E-FS-C036	QNs (Quinolones) Rapid Test Kit	5 ppb(ENR)	Tissue	Colloidal gold	40T
	E-FS-E034	QNs (Quinolones) ELISA Kit	0.1 ppb	Honey, Tissue, Milk(liquid/powder), Egg, Urine	ELISA	96T
	E-FS-E053	FQNs (Fluoroquinolones) ELISA Kit	0.1 ppb	Tissue, Honey, Milk(liquid/powder), Egg, Urine	ELISA	96T
	E-FS-E054	FQNs (Fluoroquinolones) ELISA Kit	0.2 ppb	Tissue, Honey, Milk(liquid/powder), Egg, Urine	ELISA	96T
	E-FS-E055	QNs (Quinolones) ELISA Kit	0.2 ppb	Tissue, Honey, Milk(liquid/powder), Egg, Urine	ELISA	96T
	E-FS-C035	CPFX (Ciprofloxacin) Rapid Test Kit	1 ppb	Tissue, Honey	Colloidal gold	50T
	E-FS-E022	SAR (Sarafloxacin) ELISA Kit	0.1 ppb	Tissue, Honey, Milk(liquid/powder)	ELISA	96T
	E-FS-E032	ENR (Enrofloxacin) ELISA Kit	0.1 ppb	Tissue, Honey, Milk(liquid/powder), Egg	ELISA	96T
Tetracycline	E-FS-E033	CPFX (Ciprofloxacin) ELISA Kit	0.1 ppb	Tissue, Honey, Milk(liquid/powder), Egg	ELISA	96T
	E-FS-E056	ENR (Enrofloxacin) ELISA Kit	0.2 ppb	Tissue(chicken, porcine, fish, and shrimp), Honey, Milk(liquid/powder), Egg, Urine	ELISA	96T
	E-FS-C030	TCs (Tetracycline) Rapid Test Kit	10 ppb	Tissue, Honey	Colloidal gold	50T
	E-FS-C031	TCs (Tetracycline) Rapid Test Kit	10 ppb	Milk	Colloidal gold	50T
	E-FS-E024	CTC (Chlorotetracycline) ELISA Kit	0.1 ppb	Tissue, Liver, Egg, Honey, Urine	ELISA	96T
	E-FS-E041	TCs (Tetracycline) ELISA Kit	0.3 ppb	Tissue, Liver, Egg, Honey, Urine	ELISA	96T
Others	E-FS-E046	TCs (Tetracycline) ELISA Kit	0.05 ppb	Tissue, Liver, Egg, Honey, Urine	ELISA	96T
	E-FS-C007	MG (Malachite Green) Rapid Test Kit	3ppb	Tissue, Water	Colloidal gold	10T
	E-FS-C009	MEL (Melamine) Rapid Test Kit	500 ppb	Raw milk, Milk	Colloidal gold	50T
	E-FS-C012	MEL (Melamine) Rapid Test Kit	100ppb	Raw milk, Milk	Colloidal gold	50T
	E-FS-C026	CAP (Chloramphenicol) Rapid Test Kit	0.3 ppb	Milk, Tissue, Honey	Colloidal gold	50T
	E-FS-E007	OQX (Olaquinox) ELISA Kit	0.5 ppb	Tissue, Feed	ELISA	96T
	E-FS-E008	MQCA (Methyl-3-quinoxaline-2-carboxylic acid) ELISA Kit	0.3 ppb	Muscle, Pork liver	ELISA	96T
	E-FS-E009	DEX (Dexamethasone) ELISA Kit	0.1 ppb	Muscle tissue, Milk, Feed	ELISA	96T
	E-FS-E010	MEL (Melamine) ELISA Kit	2 ppb	Milk(liquid/powder), Feed, Tissue, Egg, Serum	ELISA	96T
	E-FS-E013	MG (Malachite Green) ELISA Kit	0.025 ppb	Fish, Shrimp	ELISA	96T
Nitrofurans& their metabolites	E-FS-E016	SUD (Sudan Red) ELISA Kit	0.3 ppb	Tomato juice, Ketchup, Sambal, Paprika, Feed, Egg	ELISA	96T
	E-FS-E019	MEL (Melamine) ELISA Kit	1 ppb	Milk(liquid/powder), Feed, Tissue, Egg, Serum	ELISA	96T
	E-FS-E027	DZP (Diazepam) ELISA Kit	0.3 ppb	Tissue, Urine, Feed	ELISA	96T
	E-FS-E031	SM (Streptomycin) ELISA Kit	0.1 ppb	Tissue, Honey, Milk, Milk powder	ELISA	96T
	E-FS-E035	NMZ (Nitroimidazole) ELISA Kit	0.5 ppb	Tissue, Honey	ELISA	96T
	E-FS-E044	CAP (Chloramphenicol) ELISA Kit	0.025 ppb	Tissue, Liver, Honey, Milk(liquid/powder), Egg, Water sample, Urine, Serum, Casing, Feed	ELISA	96T



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