Elabscience®

Food Safety Analysis

Using Elabscience Food Safety Kits

Elabscience Biotechnology Inc.

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About Elabscience

Elabscience® is a high-tech biological company specializing in the development, production and sales of immunoassay reagents. The main products are Food Safety Kits, Animal Disease Kits, ELISA Kits, CLIA Kits, FCM Antibodies, Cell Function Assays, Metabolism Assay Kits, Antibodies, Proteins, Labeling Kits, Immunology Related Reagents, etc.

Since 2009, Elabscience® has been developing and producing high-quality scientific reagents to provide a comprehensive range of protein detection products for the life sciences. At present, Elabscience® has accumulated 30 invention patents and 70 utility model patents, and its products have passed ISO9001 and CE certification. More than 10,000 SCI articles have been published, and highly commended as "ELISA KIT SUPPLIER TO WATCH IN 2019" by CiteAb. Through unremitting efforts and development, Elabscience® products have been widely recognized by the market, and customers have spread to more than 100 countries all over the world.

Certificate – Сертификат – 證明書 – Certificat – 증명서 – شهادة

Form QAT_ID-M05, version 00, effective since March 25th, 2020

Certificate of Compliance

No. 0B220215.WEB0C50

Certificate's Holder: Wuhan Elabscience Biotechnology Co., Ltd.
Building B18, 2nd phase of Biomedical Park, #858 Gaoxin Road, Donghu Hi-Tech Development Area, Wuhan, Hubei Province, China

Certification ECM Mark: Type Approved

Product: ELISA KIT, ANTIBODY
Model(s): 96 TEST, 120uL

Verification to: Standard: ---

related to CE Directive(s): 2001/95/EC (General Product Safety)

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:

CE The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products. RG01_ECM rev.3 available at: www.entecerma.it

Issuance date: 15 February 2022

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GUARDIAN INDEPENDENT CERTIFICATION

CERTIFICATE OF REGISTRATION

The Quality Management Systems of

Wuhan Elabscience Biotechnology Incorporated Company

Unified Social Credit Code:91420100584894748R

F1, F2, Building A88, Biomedical Park Phase II, No.858 High-tech Avenue, East Lake High-Tech Development Zone, Wuhan City

has been assessed by GIC and complying with

GB/T19001-2016/ISO9001:2015

For the following activities

R & D, production and service of biological detection reagents

Date of Issue: 03 June 2021 Date of Expiry: 02 June 2024

Date of Initial Certification: 02 July 2015

Certificate No.: U21Q2736499R2S

The granting of this certificate does not mean that the certificate holder can avoid any legal obligation. If the products or activities covered in the scope of certification require administrative licenses, the certificate shall be only valid within the scope of administrative licensing. The registered organization shall be subject to regular annual supervision by GIC, and the continual validity of the certificate is base upon conformity of audit. Please scan two-dimension code at #5 to find the certificate information. This certificate can be queried at Certification and Accreditation Administration of the People's Republic of China official website (www.cnca.gov.cn) & GIC website (www.gicg.com.cn)

Signature: Guardian Independent Certification Ltd

Registered in England

Sovereign House 210-214 Shaftesbury Avenue London England WC2H 8HQ

Accredited by Member of IAF MLA

IAF UKAS

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Food Safety Product Features

Universal
- No species restriction
- Multiple samples are strictly validated

Strict Quality Control
- Small batches variation (CV<10%)
- Long shelf life of 12 months

Rich Indicators
- Five categories, more than 150 indicators
- Covering 98% popular indicators of global market

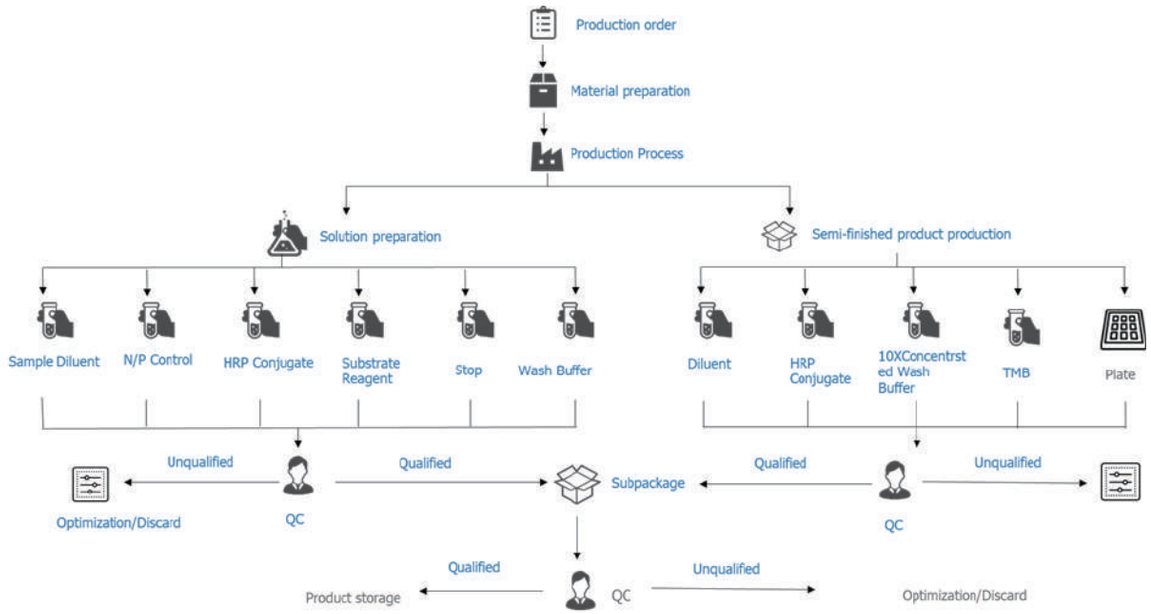
Multiple Analytical Methods
- ELISA, LFDs, PCR

Technical Service
- 8hrs response
- 24hrs solution for customer

Product Overview

Test Kit / Methods	ELISA	LFDs	PCR	Microbiological
Mycotoxins	✓	✓		
Residues&Contaminants	✓	✓		
Vitamins				✓
Food allergens			✓	
Microbiology	✓		✓	

Higher Quality



Mycotoxins

Mycotoxins

Mycotoxins are found in almost all kinds of animal feeds and foods, such as cereals, wheat bran, pasta, pea shells and corn kernels, milk, etc. Molds like to live in warm and humid environments, and are capable of growing on or inside food before and after harvesting. Because most of them are chemically stable, it's difficult to remove it in food processing.

The most common mycotoxins that are harmful to human and livestock health are total aflatoxin, aflatoxin B1, aflatoxin M1, ochratoxin A, fumonisin, zearalenone, deoxynivalenol and so on. Although most countries have established international standards and practices for mycotoxin exposure in food, mycotoxins contamination is still a worldwide concern for food safety issue.

Under this situation, Elabscience® has developed high-quality testing kits to detect common mycotoxins for researchers and farmers, including ELISA kits and Lateral Flow Assay Kit(LFDs)/Rapid test kits.

E-TO-E

- Enzyme-Linked Immunosorbent Assay
- Quantitative analysis
- Highly sensitive
- Economic and Efficient

Target	Sample type	Size	Reaction mode	Cat.No.
ELISA microtiter plates (Quantitative)				
Aflatoxin B1	Cereals,Corn skin,Wheat bran,Edible oil,Peanut, Biscuits,Beer,Wine,Soy sauce,Vinegar	96T/96T*3	Incubation time:45min	E-TO-E008
	Traditional Chinese medicine	96T/96T*3	Incubation time:45min	E-TO-E027
Aflatoxin M1	Milk,Milk powder,Urine	96T/96T*3	Incubation time:45min	E-TO-E007
	Milk,Milk powder,Yogurt,Cheese,Single Cream	96T/96T*3	Incubation time:55min	E-TO-E018
Deoxynivalenol	Cereals,Feed,Corn skin,Wheat bran	96T/96T*3	Incubation time:75min	E-TO-E003
	Cereals,Feed	96T/96T*3	Incubation time:45min	E-TO-E011
	Cereals,Feed	96T/96T*3	Incubation time:35min	E-TO-E023
Ochratoxin A	Cereals,Feed	96T/96T*3	Incubation time:75min	E-TO-E001
	Cereals,Feed	96T/96T*3	Incubation time:75min	E-TO-E015
	Cereals,Feed	96T/96T*3	Incubation time:30min	E-TO-E021
T-2 Toxin	Beans,Corn,Oats,Peanuts,Feed	96T/96T*3	Incubation time:45min	E-TO-E004
	Cereals,Feed	96T/96T*3	Incubation time:20min	E-TO-E022
Total Aflatoxin	Cereals,Formula feed,Edible oil,Peanut,Biscuit,Beer,Wine,Soy sauce,Vinegar	96T/96T*3	Incubation time:45min	E-TO-E006
	Traditional Chinese medicine	96T/96T*3	Incubation time:45min	E-TO-E028
Zearalenone	Cereals,Feed,Corn skin,Wheat bran	96T/96T*3	Incubation time:45min	E-TO-E002
	Cereals,Feed	96T/96T*3	Incubation time:35min	E-TO-E025
Fumonisins	Cereals,Feed	96T/96T*3	Incubation time:15min	E-TO-E024
Fumonisin B1	Corn,Feed	96T/96T*3	Incubation time:45min	E-TO-E020

E-TO-C

- Lateral flow assay
- Qualitative analysis
- Fast and Reliable
- Easy and On-site

Target	Sample type	Size	Reaction mode	Cat.No.
Test strips (Qualitative)				
Aflatoxin B1	Cereals,Feed,Oil	20T/50T/80T	Incubation time:8min	E-TO-C001
	Cereals,Feed,Oil	20T/50T/80T	Incubation time:8min	E-TO-C006
Zearalenone	Cereals,Feed,Oil	20T/50T/80T	Incubation time:8min	E-TO-C002
Deoxynivalenol	Cereals,Feed,Oil	20T/50T/80T	Incubation time:8min	E-TO-C003
Total Aflatoxin	Cereals,Feed,Oil	20T/50T/80T	Incubation time:8min	E-TO-C005
Aflatoxin M1	Milk	20T/50T/80T	Incubation time:10min	E-TO-C009
Fumonisin B1	Cereals,Feed	20T/50T/80T	Incubation time:8min	E-TO-C010
Ochratoxin A	Cereals,Feed	20T/50T/80T	Incubation time:5min	E-TO-C011
T-2 Toxin	Cereals,Feed	20T/50T/80T	Incubation time:5min	E-TO-C012

Residues& Contaminants

Residues&Contaminants

Veterinary drugs are substances used to treat and prevent animals from disease, which also might enter the food chain through their occurrence as residues in food. Animals may also be exposed to a range of other chemicals such as chemical contaminants. Consumers can potentially be exposed to residues via consumption of food from animals treated with veterinary medicines or exposed to chemical contaminants. This includes liver, fish, shrimp, milk, eggs, honey, serum and cell supernatant.

In order to meet the strict regulations in place around the world regarding prohibited Contaminants and Residues limits, Elabscience® provides high-quality testing kits to detect veterinary residues and food contaminants for researchers and aquaculture, including ELISA kits and Lateral Flow Assay Kit(LFDs)/Rapid test kits.

E-FS-C

- Lateral flow assay
- Qualitative analysis
- Fast and Reliable
- Easy and On-site

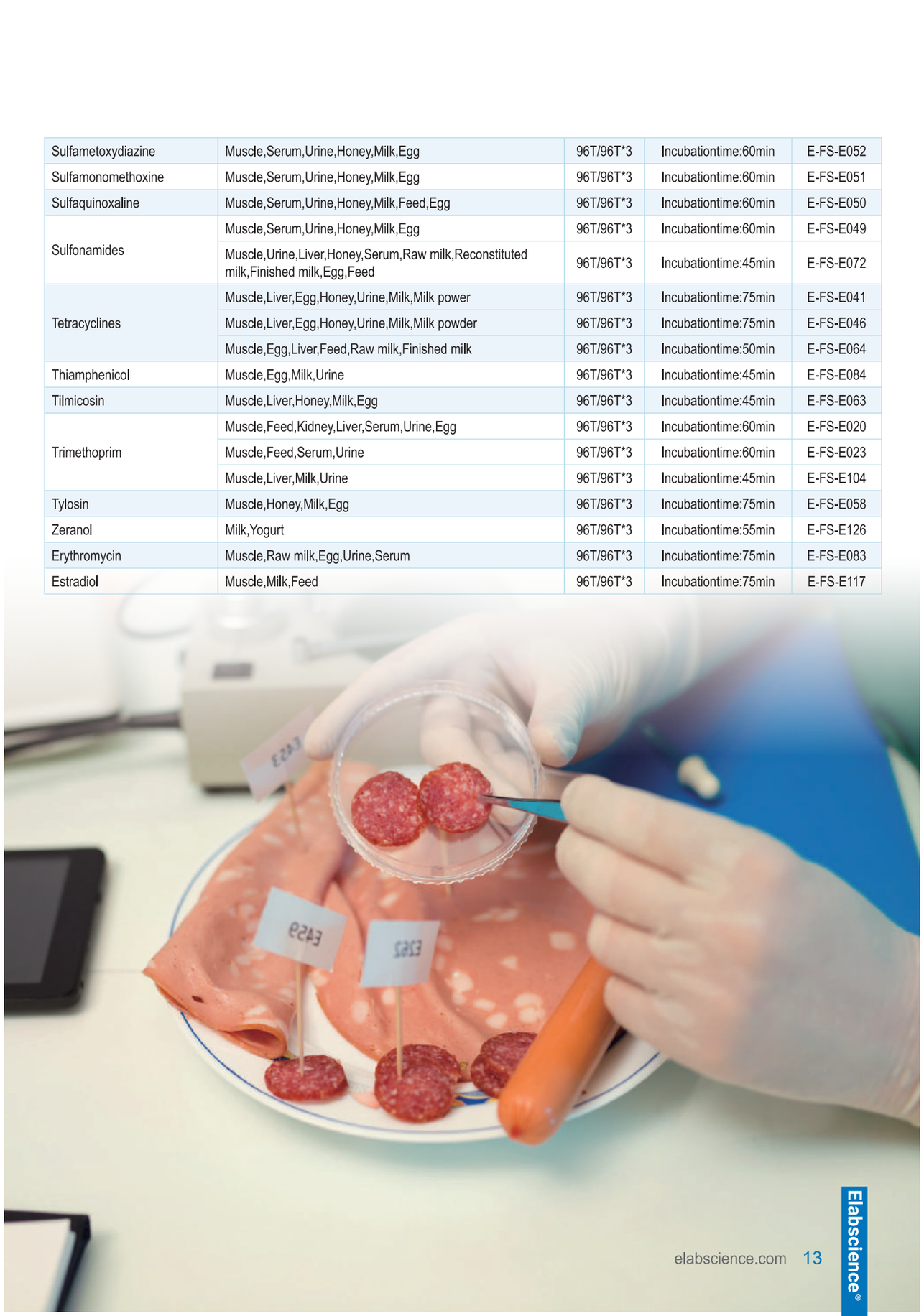
Target	Sample type	Size	Reaction mode	Cat.No.
	Test strips (Qualitative)			
NitrofuranFuraltadone	Honey,Muscle,Liver	20T/50T/80T	Incubationtime:8min	E-FS-C001
NitrofuranFurazolidone	Honey,Muscle,Liver	20T/50T/80T	Incubationtime:8min	E-FS-C002
Nitrofurantoin	Honey,Muscle,Liver	20T/50T/80T	Incubationtime:8min	E-FS-C003
Nitrofurazone	Honey,Muscle,Liver	20T/50T/80T	Incubationtime:8min	E-FS-C004
Clenbuterol	Urine,Muscle,Feed	20T/50T/80T	Incubationtime:8min	E-FS-C006
Ractopamine	Urine,Muscle,Feed	20T/50T/80T	Incubationtime:8min	E-FS-C008
Melamine	Raw milk,Milk	20T/50T/80T	Incubationtime:5min	E-FS-C009
Salbutamol	Urine,Muscle,Feed	20T/50T/80T	Incubationtime:8min	E-FS-C010
PhenylethanolamineA	Urine	20T/50T/80T	Incubationtime:8min	E-FS-C011
Clenbuterol-Ractopamine-Salbutamol	Muscle,Urine,Feed	20T/50T/80T	Incubationtime:8min	E-FS-C016
Chloramphenicol	Milk,Honey,Muscle,Egg	20T/50T/80T	Incubationtime:8min	E-FS-C026
Quinolones	Milk,Honey,Muscle,Egg	20T/50T/80T	Incubationtime:8min	E-FS-C027
	Muscle	20T/50T/80T	Incubationtime:8min	E-FS-C034
Sulfonamides	Muscle,Honey,Milk	20T/50T/80T	Incubationtime:8min	E-FS-C028
	Muscle	20T/50T/80T	Incubationtime:8min	E-FS-C033
Tetracyclines	Muscle,Honey,Egg	20T/50T/80T	Incubationtime:5min	E-FS-C030
	Milk	20T/50T/80T	Incubationtime:5min	E-FS-C031
Ciprofloxacin	Muscle,Honey,Egg,Milk	20T/50T/80T	Incubationtime:8min	E-FS-C035
OlaquindoxMetabolites	Muscle	20T/50T/80T	Incubationtime:5min	E-FS-C039
Florfenicol	Egg,Muscle	20T/50T/80T	Incubationtime:5min	E-FS-C040
MalachiteGreen	Muscle,Water	20T/80T	Incubationtime:5min	E-FS-C050
Beta-lactamAntibiotic	Milk	20T/50T/80T	Incubationtime:10min	E-FS-C105
Beta-Lactamase	Milk	20T/40T/80T	Incubationtime:5min	E-FS-C106
Enrofloxacin	Muscle,Honey,Milk,Egg	20T/50T/80T	Incubationtime:8min	E-FS-C111
Ofloxacin	Muscle,Honey,Egg	20T/40T/80T	Incubationtime:8min	E-FS-C112
Pefloxacin	Muscle,Honey,Egg	20T/40T/80T	Incubationtime:8min	E-FS-C113
CeftiofurMetabolite	Milk	20T/50T/80T	Incubationtime:10min	E-FS-C114
Oxytetracycline	Muscle,Liver	20T/40T/80T	Incubationtime:5min	E-FS-C115
Sulfamethazine	Muscle,Honey,Milk,Egg	20T/40T/80T	Incubationtime:8min	E-FS-C116
Sulfadiazine	Muscle,Liver	20T/40T/80T	Incubationtime:8min	E-FS-C117

E-FS-E

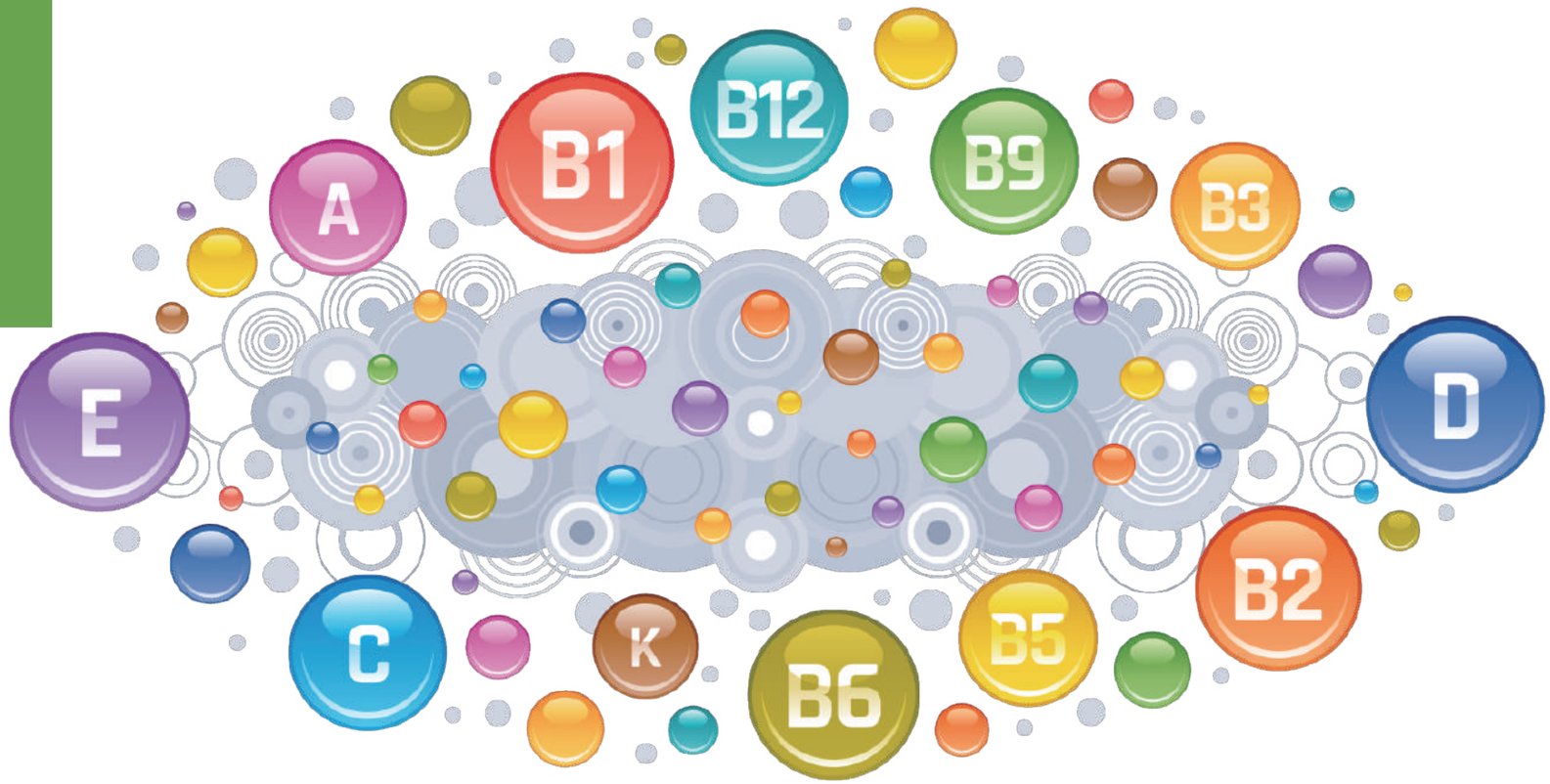
- Enzyme-Linked Immunosorbent Assay
- Quantitative analysis
- Highly sensitive
- Economic and Efficient

Target	Sample type	Size	Reaction mode	Cat.No.
	ELISA microtiter plates (Quantitative)			
PhenylethanolamineA	Muscle,Urine,Feed	96T/96T*3	Incubationtime:45min	E-FS-E015
Sulfamethoxazole	Muscle,Honey,Serum,Urine,Egg,Milk,Feed	96T/96T*3	Incubationtime:60min	E-FS-E021
Abamectin	Raw milk,Finished milk,Yogurt	96T/96T*3	Incubationtime:75min	E-FS-E079
	Milk,Muscle,Liver	96T/96T*3	Incubationtime:55min	E-FS-E124
Amantadine	Muscle,Egg,Milk	96T/96T*3	Incubationtime:45min	E-FS-E085
Amoxicillin	Muscle,Raw Milk,Egg	96T/96T*3	Incubationtime:75min	E-FS-E077
Ampicillin	Muscle,Raw milk,Egg	96T/96T*3	Incubationtime:75min	E-FS-E080
Benzylpenicillin	Muscle,Milk,Egg	96T/96T*3	Incubationtime:75min	E-FS-E098
beta-agonist	Urine,Muscle,Serum	96T/96T*3	Incubationtime:45min	E-FS-E078
Beta-lactamAntibiotic	Muscle,Egg,Milk	96T/96T*3	Incubationtime:75min	E-FS-E065
CeftiofurMetabolite	Muscle	96T/96T*3	Incubationtime:45min	E-FS-E092
Chloramphenicol	Muscle,Liver,Honey,Milk,Egg,Water,Urine,Serum,Feed,Milk powder	96T/96T*3	Incubationtime:75min	E-FS-E044
	Muscle,Honey,Finished milk,Milk powder,Yogurt,Ham sausage,Raw milk,Egg,Feed,Serum	96T/96T*3	Incubationtime:45min	E-FS-E106
	Milk,Milk powder,Cheese	96T/96T*3	Incubationtime:75min	E-FS-E113
Chlorpromazine	Muscle,Liver	96T/96T*3	Incubationtime:75min	E-FS-E096
Chlortetracycline	Muscle,Liver,Egg,Honey,Urine	96T/96T*3	Incubationtime:75min	E-FS-E024
	Muscle,Honey	96T/96T*3	Incubationtime:45min	E-FS-E111
Cimaterol	Muscle,Urine,Serum	96T/96T*3	Incubationtime:45min	E-FS-E026
Ciprofloxacin	Muscle,Honey,Milk,Egg,Milk powder	96T/96T*3	Incubationtime:60min	E-FS-E033
Clenbuterol	Muscle,Feed,Urine	96T/96T*3	Incubationtime:45min	E-FS-E025
Clorprenaline	Muscle,Serum,Urine	96T/96T*3	Incubationtime:45min	E-FS-E089
Colistin	Muscle,Urine,Egg	96T/96T*3	Incubationtime:45min	E-FS-E070
Dexamethasone	Muscle,Milk,Feed	96T/96T*3	Incubationtime:75min	E-FS-E009
Diazepam	Muscle,Urine,Feed	96T/96T*3	Incubationtime:75min	E-FS-E027
Diclazuril	Muscle	96T/96T*3	Incubationtime:45min	E-FS-E066
Diethylstilbestrol	Muscle,Liver	96T/96T*3	Incubationtime:75min	E-FS-E001
Doramectin	Raw milk,Finished milk,Yogurt	96T/96T*3	Incubationtime:75min	E-FS-E082
	Muscle,Liver	96T/96T*3	Incubationtime:75min	E-FS-E131
Doxycycline	Muscle,Raw milk,Egg,Feed	96T/96T*3	Incubationtime:45min	E-FS-E110
Enrofloxacin	Muscle,Honey,Milk,Milk powder,Egg.	96T/96T*3	Incubationtime:60min	E-FS-E032
	Muscle,Honey,Milk,Milk powder,Egg	96T/96T*3	Incubationtime:60min	E-FS-E056

Target	Sample type	Size	Reaction mode	Cat.No.
ELISA microtiter plates (Quantitative)				
Florfenicol	Muscle,Liver,Honey,Milk,Milk powder,Feed,Egg	96T/96T*3	Incubationtime:45min	E-FS-E062
Fluoroquinolones	Muscle,Honey,Milk,Milk powder,Egg,Urine	96T/96T*3	Incubationtime:60min	E-FS-E054
Gentamicin	Muscle,Milk,Egg	96T/96T*3	Incubationtime:45min	E-FS-E073
Ivermectin	Raw milk,Yogurt	96T/96T*3	Incubationtime:75min	E-FS-E130
Kanamycin	Muscle,Milk,Honey,Egg	96T/96T*3	Incubationtime:45min	E-FS-E087
Lincomycin	Muscle,Honey,Urine	96T/96T*3	Incubationtime:45min	E-FS-E061
	Muscle,Raw milk,Urine,Egg,Liver	96T/96T*3	Incubationtime:45min	E-FS-E095
Lomefloxacin	Muscle,Honey,Milk,Milk powder,Egg,Serum,Urine	96T/96T*3	Incubationtime:60min	E-FS-E128
Mabuterol	Muscle,Liver,Feed,Urine	96T/96T*3	Incubationtime:35min	E-FS-E135
MalachiteGreen	Muscle	96T/96T*3	Incubationtime:75min	E-FS-E013
Melamine	Milk powder,Milk,Muscle,Liver,Feed,Egg,Serum	96T/96T*3	Incubationtime:45min	E-FS-E010
	Milk,Yogurt,Cheese,Feed	96T/96T*3	Incubationtime:55min	E-FS-E109
Metronidazole	Muscle,Honey,Egg,Milk	96T/96T*3	Incubationtime:75min	E-FS-E011
Neomycin	Muscle,Milk,Egg	96T/96T*3	Incubationtime:45min	E-FS-E068
Nicarbizan	Muscle	96T/96T*3	ncubationtime:45min	E-FS-E120
NitrofuranFuraltadone	Muscle,Liver,Honey,Milk,Milk powder,Egg powder,Feed,Egg	96T/96T*3	Incubationtime:60min	E-FS-E002
NitrofuranFurazolidone	Muscle,Liver,Honey,Milk,Milk powder,Egg powder,Feed,Egg	96T/96T*3	Incubationtime:60min	E-FS-E003
Nitrofurantoin	Muscle,Liver,Honey,Milk,Milk powder,Feed,Egg powder,Egg	96T/96T*3	Incubationtime:60min	E-FS-E004
Nitrofurazone	Muscle,liver,Honey,Milk,Milk powder,Egg powder,Feed,Egg	96T/96T*3	Incubationtime:60min	E-FS-E005
Nitroimidazoles	Muscle,Honey,Egg	96T/96T*3	Incubationtime:75min	E-FS-E035
Norfloxacin	Muscle,Honey,Milk,Milk powder,Egg,Serum,Urine	96T/96T*3	Incubationtime:60min	E-FS-E127
Ofloxacin	Muscle,Honey,Milk,Milk powder,Egg,Serum,Urine	96T/96T*3	Incubationtime:60min	E-FS-E129
Olaquindox	Muscle,Feed	96T/96T*3	Incubationtime:75min	E-FS-E007
OlaquindoxMetabolites	Muscle,Liver	96T/96T*3	Incubationtime:75min	E-FS-E008
Oxytetracycline	Muscle,Liver,Egg,Honey,Urine	96T/96T*3	Incubationtime:75min	E-FS-E094
	Muscle,Milk,Egg,Feed	96T/96T*3	Incubationtime:45min	E-FS-E112
Pentachlorophenol Sodium	Muscle,Feed	96T/96T*3	Incubationtime:45min	E-FS-E093
Quinolones	Muscle,Honey,Egg,Milk,Milk powder,Urine	96T/96T*3	Incubationtime:60min	E-FS-E034
Quinoxaline-2-carboxylicacid	Muscle,Egg,Liver,Milk	96T/96T*3	Incubationtime:45min	E-FS-E086
Ractopamine	Muscle,Liver,Feed,Urine	96T/96T*3	Incubationtime:45min	E-FS-E012
Ribavirin	Muscle,Egg,Milk	96T/96T*3	Incubationtime:45min	E-FS-E088
Salbutamol	Muscle,Urine,Feed,Liver	96T/96T*3	Incubationtime:45min	E-FS-E017
Sarafloxacin	Muscle,Honey,Milk,Milk powder,Egg,Urine	96T/96T*3	Incubationtime:60min	E-FS-E022
Spectinomycin	Muscle,Raw milk	96T/96T*3	Incubationtime:40min	E-FS-E081
Spiramycin	Muscle,Milk,Egg	96T/96T*3	Incubationtime:45min	E-FS-E101
Streptomycin	Muscle,Honey,Milk,Milk powder,Egg	96T/96T*3	Incubationtime:75min	E-FS-E031
SudanI	Tomato juice,Ketchup,Chilli sauce,Chilli powder,Feed,Egg	96T/96T*3	Incubationtime:75min	E-FS-E016
Sulfadiazine	Muscle,Serum,Urine,Honey,Milk,Egg,Water	96T/96T*3	Incubationtime:60min	E-FS-E114
Sulfamerazine	Muscle,Honey,Milk,Egg	96T/96T*3	Incubationtime:60min	E-FS-E115
Sulfamethazine	Muscle,Milk,Urine,Honey,Egg	96T/96T*3	Incubationtime:60min	E-FS-E043
Sulfametoxydiazine	Muscle,Serum,Urine,Honey,Milk,Egg	96T/96T*3	Incubationtime:60min	E-FS-E052
Sulfamonomethoxine	Muscle,Serum,Urine,Honey,Milk,Egg	96T/96T*3	Incubationtime:60min	E-FS-E051
Sulfaquinoxaline	Muscle,Serum,Urine,Honey,Milk,Feed,Egg	96T/96T*3	Incubationtime:60min	E-FS-E050
Sulfonamides	Muscle,Serum,Urine,Honey,Milk,Egg	96T/96T*3	Incubationtime:60min	E-FS-E049
	Muscle,Urine,Liver,Honey,Serum,Raw milk,Reconstituted milk,Finished milk,Egg,Feed	96T/96T*3	Incubationtime:45min	E-FS-E072
Tetracyclines	Muscle,Liver,Egg,Honey,Urine,Milk,Milk power	96T/96T*3	Incubationtime:75min	E-FS-E041
	Muscle,Liver,Egg,Honey,Urine,Milk,Milk powder	96T/96T*3	Incubationtime:75min	E-FS-E046
	Muscle,Egg,Liver,Feed,Raw milk,Finished milk	96T/96T*3	Incubationtime:50min	E-FS-E064
Thiamphenicol	Muscle,Egg,Milk,Urine	96T/96T*3	Incubationtime:45min	E-FS-E084
Tilmicosin	Muscle,Liver,Honey,Milk,Egg	96T/96T*3	Incubationtime:45min	E-FS-E063
Trimethoprim	Muscle,Feed,Kidney,Liver,Serum,Urine,Egg	96T/96T*3	Incubationtime:60min	E-FS-E020
	Muscle,Feed,Serum,Urine	96T/96T*3	Incubationtime:60min	E-FS-E023
	Muscle,Liver,Milk,Urine	96T/96T*3	Incubationtime:45min	E-FS-E104
Tylosin	Muscle,Honey,Milk,Egg	96T/96T*3	Incubationtime:75min	E-FS-E058
Zeranol	Milk,Yogurt	96T/96T*3	Incubationtime:55min	E-FS-E126
Erythromycin	Muscle,Raw milk,Egg,Urine,Serum	96T/96T*3	Incubationtime:75min	E-FS-E083
Estradiol	Muscle,Milk,Feed	96T/96T*3	Incubationtime:75min	E-FS-E117



Vitamins



Vitamins

Vitamins are essential nutrients for the growth, development, and maintenance of cells, tissues, and organs. Vitamins are classified as either water-soluble or fat-soluble. For humans, there are 13 vitamins: 4 fat-soluble (A, D, E, and K) and 9 water-soluble (8 B vitamins and vitamin C). These nutrients are typically obtained through the consumption of food or dietary supplements, which are subject to vitamin testing in order to meet specific labeling requirements. Food manufacturers, regulatory agencies and commercial laboratories should therefore have analytical methods on hand that allow them to quickly and easily determine the natural and additive vitamin in food.

Elabscience offers microbiological kit for the detection of the following vitamins: Biotin (Vitamin H or Vitamin B7), Folic acid and Vitamin B12.

Microbiological tests

- Samples with added or natural vitamin content can be analyzed
- Method in conformity with official guidelines (AOAC)
- Ready-to-use reagents for 96 determinations
- Results available within 24-48 hours

Target	Sample type	Size	Reaction mode	Cat.No.
Microbiological microtiter plates (Quantitative)				
Biotin	Multivitamin juices, Fitness drinks, Cereals, Baby food, Flour	96T/96T*3	Incubation time:44h	E-FS-E138
Cyanocobalamin	Multivitamin juices, Fitness drinks, Cereals, Baby food, Flour	96T/96T*3	Incubation time:44h	E-FS-E139
Folic acid	Multivitamin juices, Fitness drinks, Cereals, Baby food, Flour	96T/96T*3	Incubation time:44h	E-FS-E140

Microbiology

Microbiology

All kinds of commodities are potentially at risk of contamination by spoiling microorganisms and pathogens. Therefore, Elabscience offers reliable kits for the analysis of meat and meat products, dairy products, egg and egg products, vegetables, fruits, herbs and spices, beverages, cereals and cereal products as well as prepared meals.

Well-established methods are used for both on-site testing, the classical microbiological testing or for specific detection by real-time PCR or ELISA are offered.

The application of rapid molecular methods is becoming increasingly important for microbiological laboratories. Reliable and particularly sensitive, real-time PCR is an important method in modern food analysis and delivers substantially faster results than the classical detection methods.

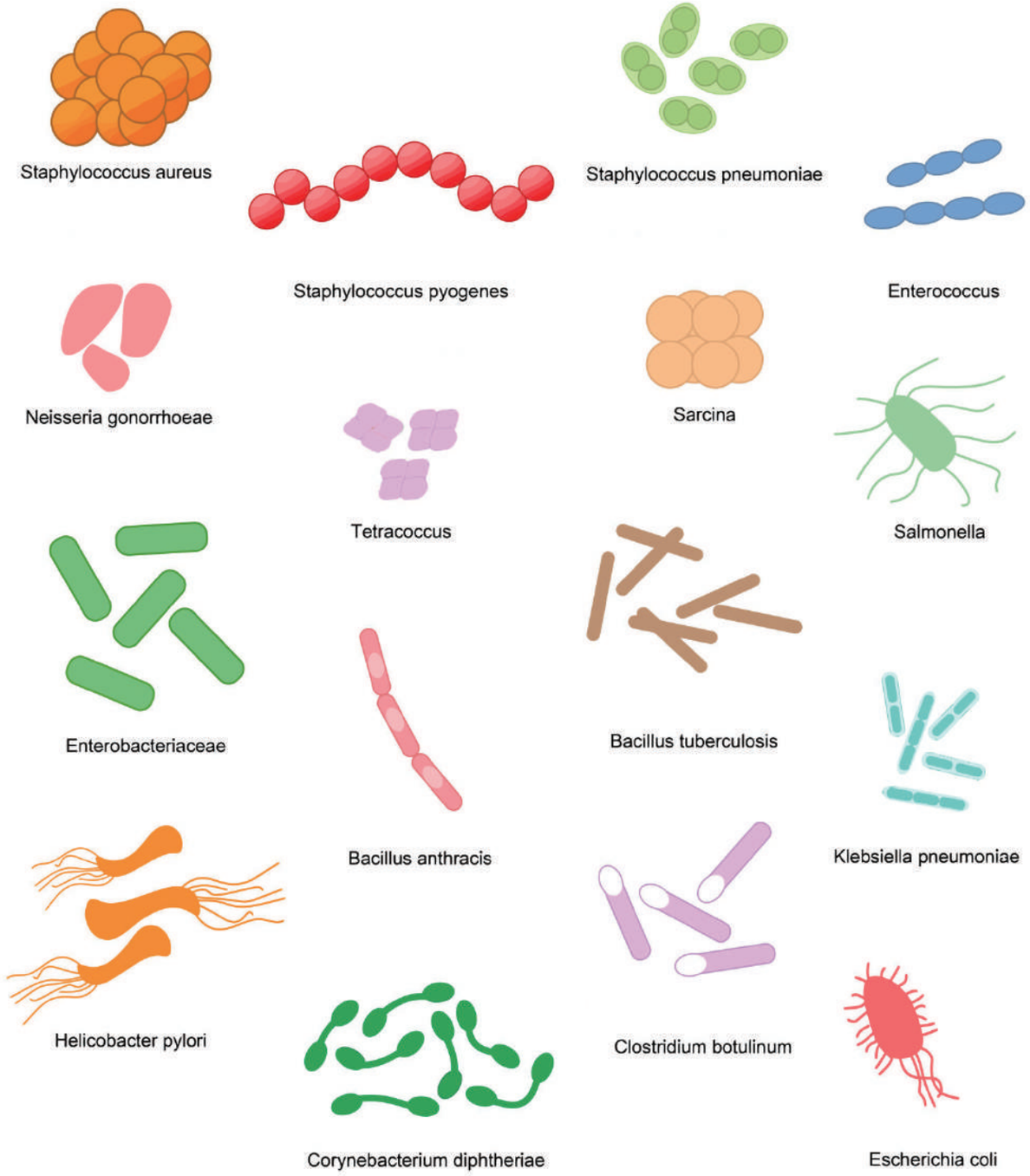
ELISA for the detection of Staphylococcal aureus Enterotoxin Total

- Enzyme-Linked Immunosorbent Assay
- Qualitative analysis
- Highly sensitive
- Economic and Efficient

PCR for the detection of Salmonella

- Robust, stable target molecule (DNA) in highly processed food samples
- Highly specific assay with minimum tendency to cross reactions
- Standardized handling and test procedure (1-2 h)

Target	Sample type	Size	Reaction mode	Cat.No.
ELISA microtiter plates (Qualitative)				
Staphylococcal aureus Enterotoxin Total	Milk,Yogurt, Milk powder	96T	Incubation time:120min	E-FS-E118
Real-time PCR(Qualitative)				
Salmonella	Milk,Milk powder,Feed,Water,other food,etc	25T/50T	Incubation time:61.25min	E-FS-P004



Food allergens

Food allergens

Food allergens are proteins in food which can trigger allergic, sometimes even bring life threatening reactions in susceptible population. The extremely low allergen concentrations are sufficient to cause allergic symptoms. 90% of all food allergies are caused by the following 8 common food categories: milk, eggs, peanuts, fish, shellfish, tree nuts, wheat and soy.

Small traces of allergenic proteins in food can provoke allergic reactions in susceptible population. Therefore, monitoring of cross-contamination in raw material and production lines as well as correct labeling of food products are an important part of quality control in the food industry.

Many countries have similar legislation requiring food manufacturers to label products potentially containing allergens.

For food testing, there are different analytical methods: ELISA, LFDs and PCR. While ELISA and LFDs detect proteins, PCR detects the DNA of allergens. These methods are complementary and can be used for confirmation of screening results.

Real-time PCR
E-FS-P

- Robust, stable target molecule (DNA) in highly processed food samples
- Highly specific assay with minimum tendency to cross reactions
- Standardized handling and test procedure (1 - 2 h)

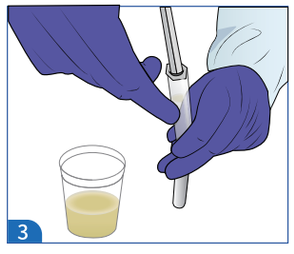
Target	Sample type	Size	Reaction mode	Cat.No.
	Real-time PCR(Qualitative)			
Peanut	Cake,Candy,Ice cream	25T/50T	Incubation time:38.75min	E-FS-P003

ELISA

ELISA (enzyme-linked immunosorbent assay) is a plate-based assay technique designed for detecting and quantifying substances such as peptides, proteins, antibodies and hormones. Other names, such as enzyme immunoassay (EIA), are also used to describe the same technology. In an ELISA, an antigen must be immobilized on a solid surface and then complexed with an antibody that is linked to an enzyme. Detection is accomplished by assessing the conjugated enzyme activity via incubation with a substrate to produce a measureable product.

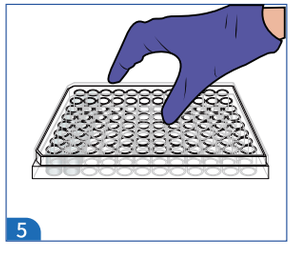
Weigh 4±0.05 g of homogenate sample into tube.

Add sample solution, shake and mix well.

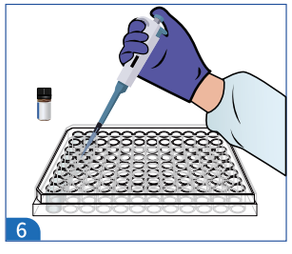


After centrifugation and standing, take 50 μL of supernatant for analysis.

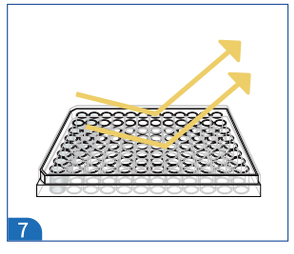
Restore all reagents and samples to room temperature (25 ℃) before use.



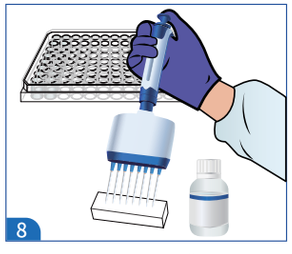
Number the sample and standard in order (multiple wells).



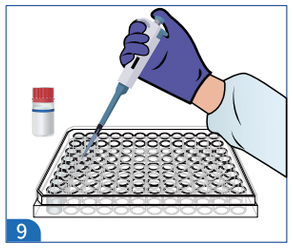
Add 50 μL of standard or sample.



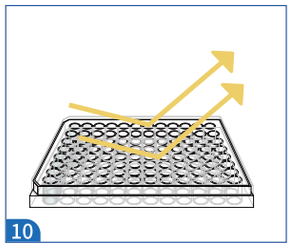
Incubate at 37 ℃ for 30 min with shading light.



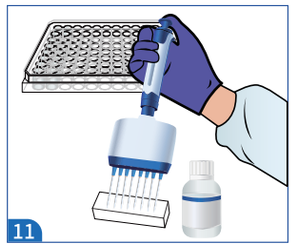
Add 300 μL of Wash Buffer to each well and wash.



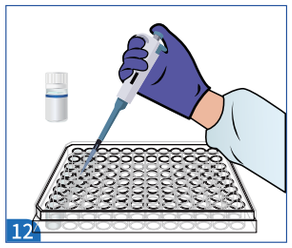
Add 100 μL of HRP conjugate to each well.



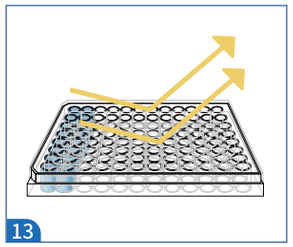
Incubate at 37 ℃ for 30 min with shading light.



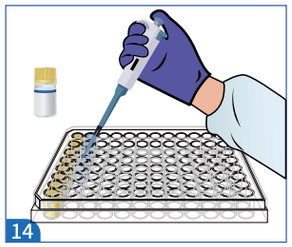
Add 300 μL of Wash Buffer to each well and wash.



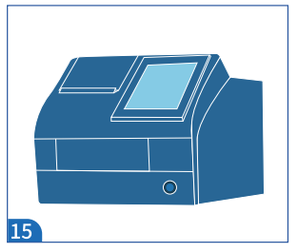
Add 100 μL of Substrate Reagent to each well.



Incubate at 37 ℃ for 15 min with shading light.

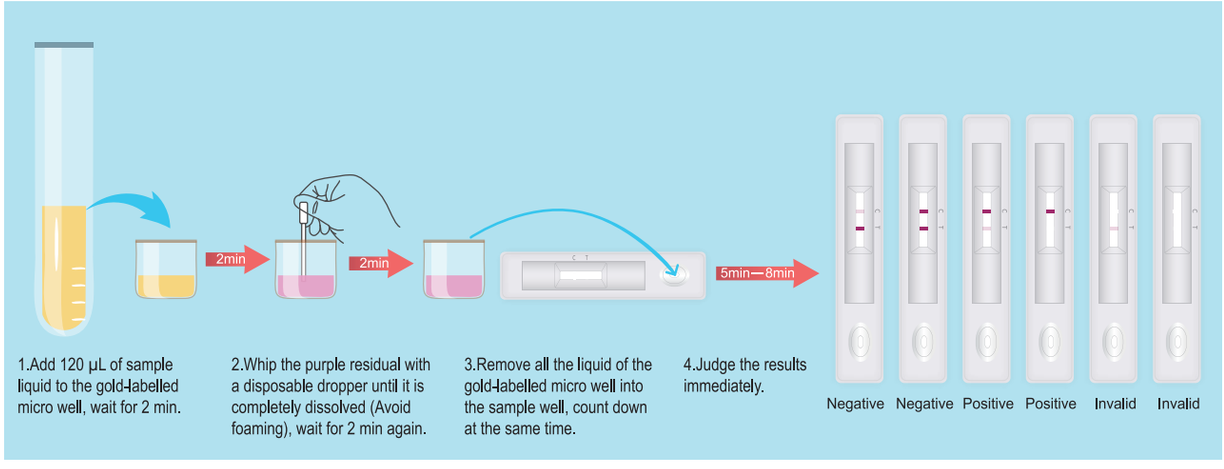


Add 50 μL of Stop Solution to each well. Gently oscillate to mix thoroughly.



Determine the optical density (OD value) of each well at 450 nm (reference wavelength 630 nm) with a microplate reader.

LFDs



LFDs (Lateral Flow Assay Kit), it is a simple to use diagnostic device used to confirm the presence or absence of a target analyte, such as pathogens or biomarkers in humans or animals, or contaminants in water supplies, foodstuffs, or animal feeds. LFAs typically contain a control line to confirm the test is working properly, along with one or more target or test lines. They are designed to incorporate intuitive user protocols and require minimal training to operate. LFDs use immunoassay technology using nitrocellulose membrane, coloured nanoparticles (or labels), and typically antibodies, to produce results.

When a sample is added, the sample will flow along the test device passing through the conjugate pad into the nitrocellulose membrane and then onto the absorbent pad.
Labels will be chosen during lateral flow development depending on several factors such as the target, sample matrix and antibody. The optimisation of the assay will ensure the label interacts correctly with the antibody and antigen to ensure efficiency and accuracy of results. This is vital for achieving a successful transfer and scale-up into routine lateral flow manufacturing.

Using names such as rapid test or quick test can lead to myths about lateral flow devices that they are limited in their capability. However, lateral flow devices are compact, easy-to-use, and offer considerable flexibility.
In addition, the developments in reader technology and advancements in raw materials, such as labels, means a lateral flow rapid test can match the sensitivity of an ELISA assay.