

VESTA

Laboratory Equipment

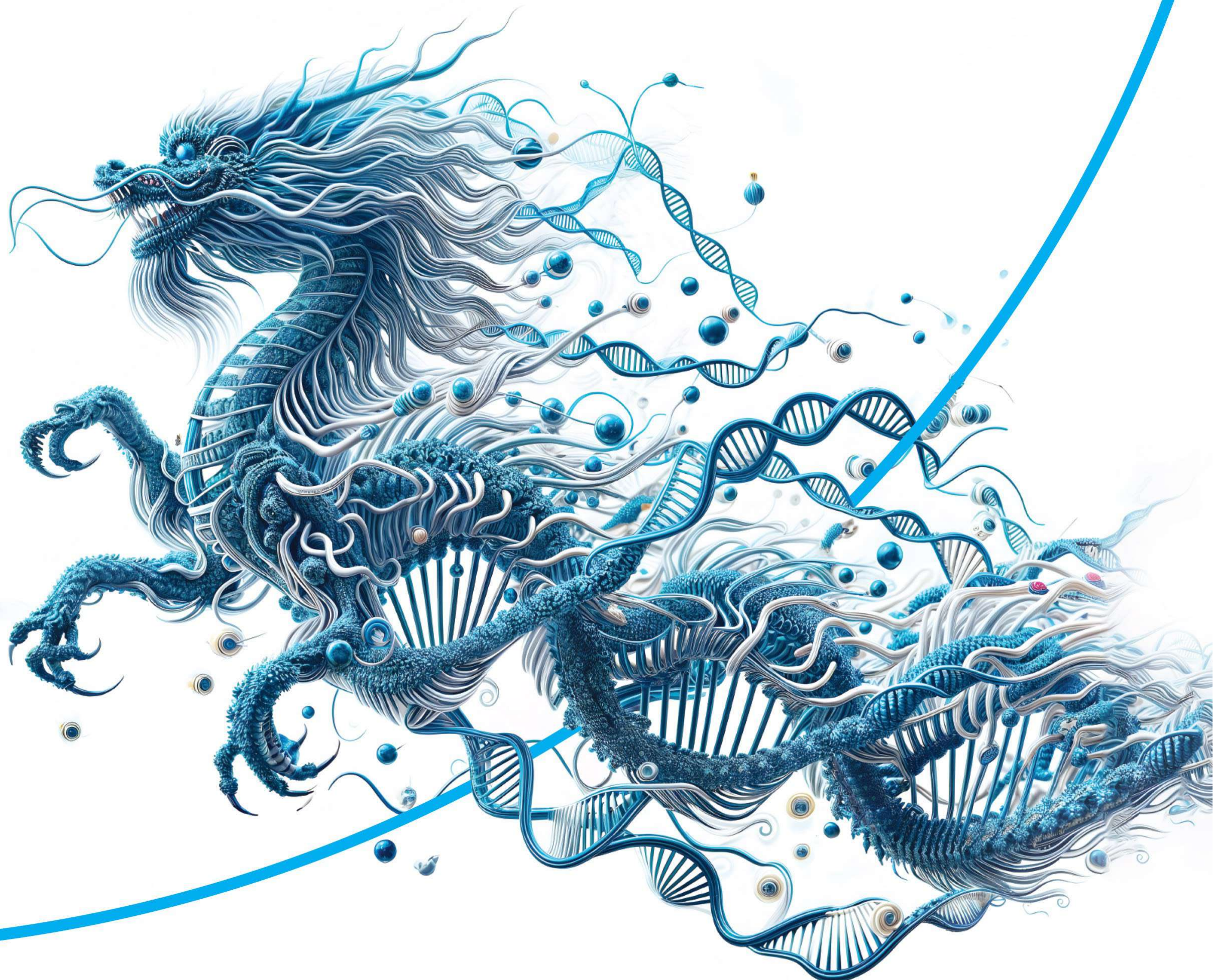
Sign with Confidence

KHB
KEHUA BIOTECH

TIANLONG
天隆科技

PRODUCT CATALOG

www.vestablab.ir



About KHB Group



Shanghai Kehua Bio-engineering Co., Ltd.

Shanghai Kehua Bio-engineering Co., Ltd. (KHB, Stock code: 002022.SZ), founded in 1981, is an IVD company that boasts a full line of medical diagnostic products including IVD reagents and full automatic analyzers. In 2004, KHB was listed in the Shenzhen Stock Exchange (SZSE) as the first IVD company in China; In 2015, KHB developed overseas investment in TGS Italy; In 2018, KHB developed cooperation with Tianlong Science and Technology, an innovative high-tech company specializing in molecular diagnostic products.

Headquartered in Shanghai China, KHB has set up R&D centers and production bases in a number of countries and regions including Italy, Shenzhen, Xi'an, and Suzhou, with over 30 subsidiaries and over 2,000 employees.

With over 40 years, now the KHB Group has developed into an international high-tech company that integrates R&D, manufacturing and marketing business operations, focusing on clinical chemistry, immunoassay, molecular diagnostics and point-of-care testing (POCT).

Contents

Clinical Diagnostics

- Clinical Chemistry
- Chemiluminescence Immunoassay
- Enzyme-linked Immunoassay
- Molecular Diagnostics
- POCT

Veterinary Diagnostics

- Molecular Diagnostics
- Agglutination

Environmental Hygiene Monitoring

- Bioluminescence

Food Safety Monitoring

- Molecular Diagnostics

Clinical Diagnostics

Automatic Clinical Chemistry Analyzer

ZY Series

Make clinical biochemical detection more convenient and efficient.

	ZY-260	ZY-400	ZY-1200
Model			
Configuration	Desktop	Floor-stand	Floor-stand
Throughput	200 tests/hour; ISE 400 tests/hour	400 tests/hour; ISE 400 tests/hour	800 tests/hour; ISE 400 tests/hour
Sample Capacity	54	90	180
Reagent Capacity	72	72	200
Reaction Cuvette	80	81	160

Automatic Module Clinical Chemistry Analyzer

Polaris Series

High efficiency detection, modular combination and intelligent management.

	Polaris C1000	Polaris C2000
Model		
Configuration	Floor-stand; Modular	Floor-stand
Throughput	1000 tests/hour; ISE: 600 tests/hour	2000 tests/hour; ISE: 600 tests/hour
Sample Capacity	325	405
Reagent Capacity	200	216
Reaction Cuvette	216	432

Clinical Chemistry Reagent

Over 100 kinds of clinical chemistry reagents that meet clinical requirement.

Liver Function

- ALT
- AST
- ALP
- TP
- ALB
- PA
- TBA
- γ -GT
- m-AST
- CIV*
- LAP*
- TB
- DB
- CHE
- AFU
- GPDA
- ADA
- 5'-NT
- CG
- MAO*
- AMM*
- GR*

Renal Function

- CRE
- UREA
- UA
- UMA
- Cys-C
- RBP
- NAG
- NGAL
- β 2-MG
- α 1-MG
- ulgG
- uTRF
- CSF*
- LC λ *
- LCK*

Blood Lipid

- TC
- TG
- HDL-C
- LDL-C
- ApoA1
- ApoB
- Lp (a)
- ApoE
- sd-LDL-C
- Lp-PLA2
- MPO*
- PLIP*

Specific Protein

- IgA
- IgM
- IgG
- C3
- C4
- CRP
- hs-CRP
- WCRP
- RF
- ASO
- anti-CCP
- SAA
- PCT*
- MMP-3*
- Clq*
- SOD*

Myocardium

- LDH
- CK
- CK-MB
- α -HBDH
- HCY
- IMA
- ACE
- MYO
- H-FABP
- CTnl*
- LDHI*

Electrolyte

- Ca
- Mg
- IP
- CO
- K
- Na
- Cl
- Fe*
- Zn*

Glycometabolism

- GLU
- HbA1c
- D3H
- NEFA
- GA
- INS*
- GSP*
- LAC*

Tumor Marker

- SA
- PGI
- PGII
- Fer*
- SGF*

Pancreas

- α -AMY
- LPS
- PAMY

Others

- D-Dimer
- TRF
- 25(OH)D
- FDP*
- Fbg*

Automatic Sample Processing System

GeneMix Pro

Designed for automating laboratory workflow; Maintain sample integrity with a hands-free operation

	GeneMix Pro
Model	
Throughput	96
Handling Time	≤20 minutes for 96 samples
Pipetting volume	5 -1000 µL
Pipetting Accuracy	5 µL~50 µL: Er: ≤3.5% 50 µL~200 µL: Er: ≤2.5% ≥ 200 µL: Er: ≤2.0%

Sample Collection Set

For storage and transportation of human specimen

Stable: prevent nucleic acid degradation

Convenient: storage under room temperature

Safe: inactivated, reduce infectivity and pathogenicity

User-friendly: with different specification to meet diverse needs



Automatic Nucleic Acid Extractor

GeneFlex/Libex/Npex 192

Optimizing your extraction efficiency with confidence

	GeneFlex	Libex	Npex 192
Model			
Throughput	16	32	192
Mixing Method	Rotary Mixing	Vibration Mixing	Vibration Mixing
Processing Volume	20 ~ 1700µL	30 ~ 1000µL	30 ~ 1000µL
Sample Processing Volume	200µL-500µL	50µL-200µL	50µL-200µL

Automatic Nucleic Acid Extractor

GeneRotex Series

Innovative rotary mixing technology for extraction

	GeneRotex 24	GeneRotex 48	GeneRotex 96
Model			
Throughput	24	48	96
Mixing Method	Rotary Mixing	Rotary Mixing	Rotary Mixing
Processing Volume	50-15000µL	50 ~ 3000µL	30 ~ 1000µL
Sample Processing Volume	50-5000µL	50µL-1000µL	50µL-200µL

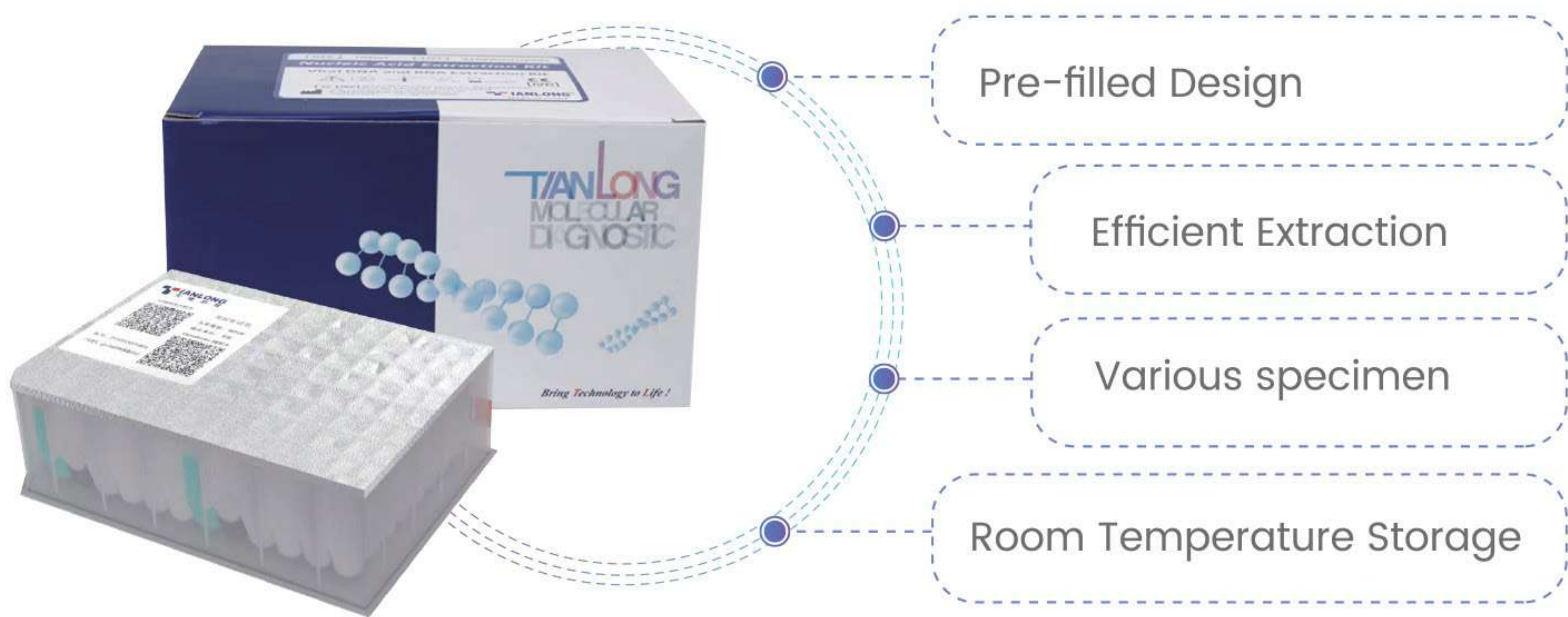
Automatic Nucleic Acid Workstation

PANA9600 Series

All innovation for boosting your lab efficiency with simplified workflow

	PANA9600S	PANA9600X
Model		
Throughput	96	96
Mixing Method	Rotary Mixing	Rotary Mixing
Processing Volume	30 ~ 1000μL	30 ~ 1000μL
Sample Processing Volume	50μL-200μL	50μL-200μL
Main Functions	Sample information scanning Sample loading Nucleic acid extraction PCR system setup	Capping/decapping Sample information scanning Sample loading Nucleic acid extraction PCR system setup

Nucleic Acid Extraction Reagent



- TB DNA
- HPV DNA
- HBV DNA&HCV RNA
- DBS (Dried Blood Spot) Genomic DNA-SMA
- Viral DNA/RNA
- Bacteria Genomic DNA

- Whole Blood Genomic DNA
- DBS (Dried Blood Spot) Genomic DNA
- FFPE Genomic DNA
- Free Circulating DNA
- Stool DNA/RNA
- Buccal Swabs DNA

- Amniotic Fluid DNA
- Plasmid DNA
- DNA Purification

*Tianlong offers extraction reagents covering various sample types (extraction from human, animal, plant, microorganism, environment, etc.) can meet different customer needs.

Automated Liquid Handling System

PANA S401

Providing consistent sample mixing and excellent pipetting performance to standardize your results

	PANA S401
Model	
Throughput	96 samples; up to 768 samples in one run
Sample Loading Channels	4 loading channels
Pipetting volume	1-1000µL
Tip Volume	5-50µL; 50-1000µL

Portable Real-Time PCR System

Gentier mini Series

Excellent performance and Portability; Design for mobile, small laboratories, or on site testing

	Gentier mini	Gentier mini+
Model		
Throughput	16	16
Fluorescence Channels	2	4
Max. Heating Rate	≥5.0°C/s	≥5.0°C/s
Max. Cooling Rate	≥4.0°C/s	≥4.0°C/s

Molecular Diagnostics

Real-time PCR System

Gentier 48 Series

Maximum 48 samples in one run; Meet the needs of small or medium-sized laboratories, or on-site testing

	Gentier 48E	Gentier 48R
Model		
Throughput	48	48
Fluorescence Channels	4	2
Max. Heating Rate	$\geq 8.0^{\circ}\text{C/s}$	$\geq 8.0^{\circ}\text{C/s}$
Max. Cooling Rate	$\geq 6.2^{\circ}\text{C/s}$	$\geq 6.2^{\circ}\text{C/s}$

Real-Time PCR System

Gentier 96 Series

Maximum 96 samples in one run; Meet the needs of high-end laboratories

	Gentier 96E	Gentier 96R
Model		
Throughput	96	96
Fluorescence Channels	6	4
Max. Heating Rate	$\geq 6.1^{\circ}\text{C/s}$	$\geq 6.1^{\circ}\text{C/s}$
Max. Cooling Rate	$\geq 5.0^{\circ}\text{C/s}$	$\geq 5.0^{\circ}\text{C/s}$

Real-time PCR System

Gentier X3 Series

Advanced flexibility; 3 independent thermal blocks; Maximum 3×32 throughput

	Gentier X3E	Gentier X3S	Gentier X3R	Gentier X3C
Model				
Touch Screen	YES	NO	YES	NO
Throughput	32 x 3	32 x 3	32 x 3	32 x 3
Fluorescence Channels	6	6	4	4
Max. Heating Rate	≥6.2°C/s	≥6.2°C/s	≥6.2°C/s	≥6.2°C/s
Max. Cooling Rate	≥ 5.0°C/s	≥ 5.0°C/s	≥ 5.0°C/s	≥ 5.0°C/s

PCR Thermal Cycler

Genesy 96T

Ultimate performance to meet your diverse needs

	Genesy 96T
Model	
Throughput	96
Max. Heating Rate	≥3.5°C/s
Max. Cooling Rate	≥2.5°C/s

Clinical PCR Detection Reagent

Respiratory Infections

- SARS-CoV-2
- Influenza Virus
- Avian Influenza Virus
- Respiratory Virus Panels
- Human Parainfluenza Virus
- Human AdenoVirus
- Human Bocavirus
- Human Metapneumovirus
- Human Rhinovirus
- Respiratory Syncytial Virus
- MERS-CoV
- Coronavirus
- Streptococcus Pneumoniae
- Haemophilus Influenza
- Streptococcus Haemolyticus
- Legionella Pneumophila
- Bacillus Pertussis
- Mycobacterium Tuberculosis
- Mycoplasma Pneumoniae
- Chlamydia Pneumoniae



Gastrointestinal Infections

Viral Gastrointestinal Infection

- Norovirus
- Sapovirus
- Astrovirus
- Enterovirus
- Enteric Adenovirus
- Rotavirus
- Coxsackievirus
- Enterohemorrhagic Escherichia coli
- Sapovirus/Adenovirus/Astrovirus

Foodborne Pathogenic Bacteria

- Escherichia Coli
- Salmonella
- Shigella
- Salmonella Enterica/Shigella
- Vibrio Parahaemolyticus
- Staphylococcus Aureus
- Vibrio Cholerae
- Clostridium Perfringens
- Campylobacter Jejuni
- Bacillus Cereus
- Listeria Monocytogenes
- Enterobacter Sakazakii
- Escherichia Coli /Staphylococcus Aureus
- Salmonella/Listeria Monocytogenes
- Vibrio Parahemolyticus/Bacillus Cereus



Viral Hepatitis

- Hepatitis C Virus (HCV)
- Hepatitis B Virus (HBV)



Oncology

- Human T-cell Leukemia Virus Type I (HTLV-I)
- EB Virus
- Human Cytomegalovirus (HCMV)
- Human B-raf
- Human K-ras



Pharmacogenomics

- Human ALDH2
- Human Leukocyte Antigen B27
- Human HLA-B*1502
- Human HLA-B*5801
- Human CYP2C19
- CYP2D6*10\CYP2C9*3\ADRB1(1165G>C)\AGTRI(1166A>C)\ACE(I/D)
- NPPA (2238T>C)\CYP3A5*3
- Human MTHFR (677C>T)
- Human MTHFR\MTRR
- Human APOE & SLCO1B1



Sexually Transmitted Infections

- Chlamydia Trachomatis (CT)
- Neisseria Gonorrhoeae (NG)
- Ureaplasma Urealyticum (UU)
- Chlamydia Trachomatis (CT) / Neisseria Gonorrhoeae (NG) / Ureaplasma Urealyticum (UU) / Ureaplasma Parvum (UP)
- Human Papilloma Virus (HPV)
- Treponema Pallidum
- Herpes Simplex Virus (HSV)
- Human Immunodeficiency Virus 1 (HIV-1)
- HPV Genotypes 18



Maternal & Child Health

- Herpes Simplex Virus
- ParvoVirus B19
- Human Survival Motor Neuron 1 (SMN1)
- Measles/Rubella Virus
- Group B Streptococcus (GBS)



Tropical Infections & Zoonoses

- Dengue Virus
- Dengue Virus/Zika Virus/Chikungunya Virus
- Zika Virus
- Yellow Fever Virus
- Epidemic Encephalitis B
- Marburg Virus
- Lassa Fever Virus
- Ebola Virus
- Rift Valley Fever Virus
- Hantaan Virus/Seoul Virus



Herpes Viruses

- Monkeypox Virus
- Human Herpes Virus
- Varicella Zoster Virus (VZV)



Others

- Neisseria Meningitidis
- Mycobacterium Lepae
- Pseudomonas Aeruginosa
- Yersinia Pestis (YP)

All-in-one Molecular Diagnosis Solution

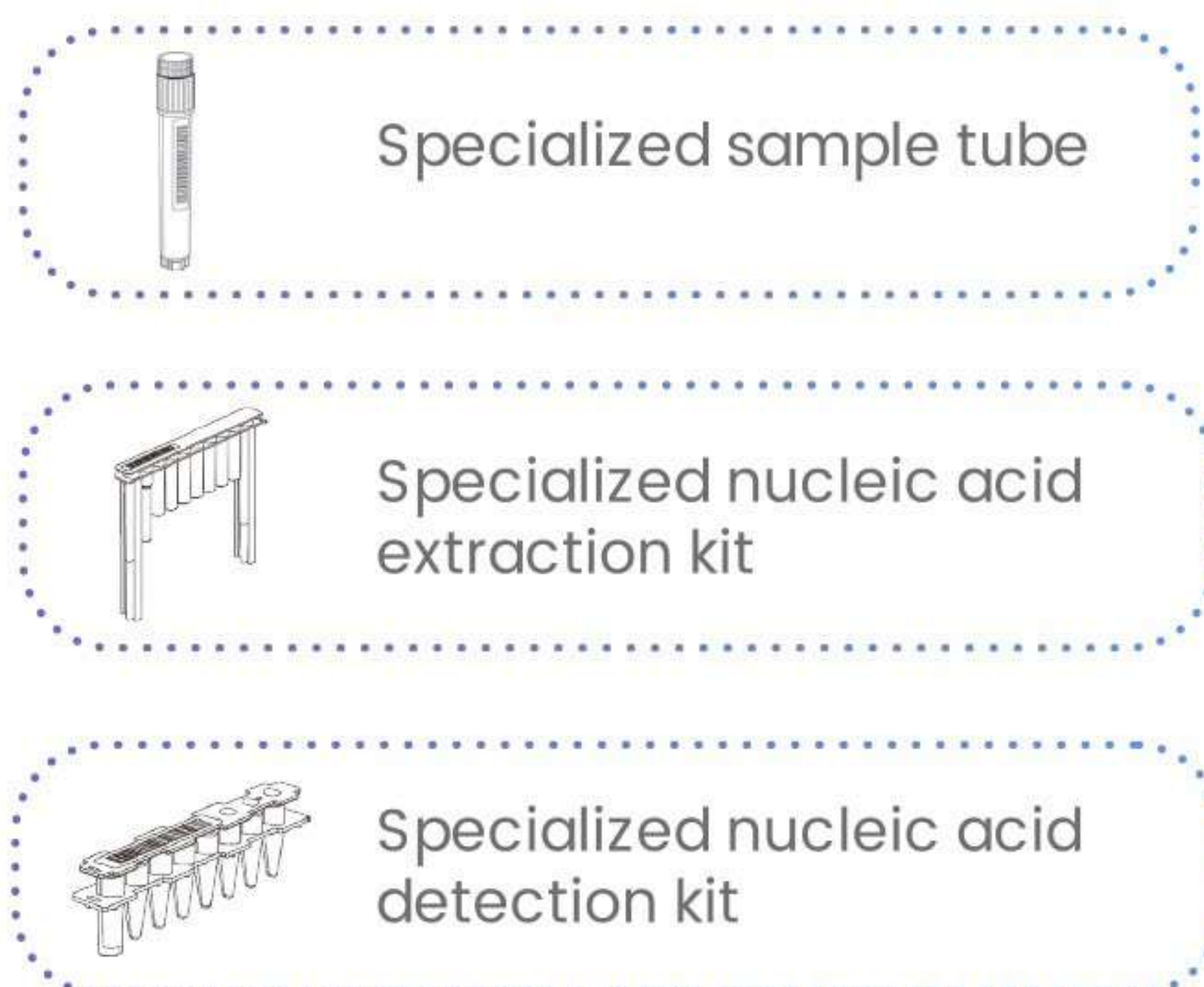
Panall 8000

All-in-one Molecular Diagnosis System

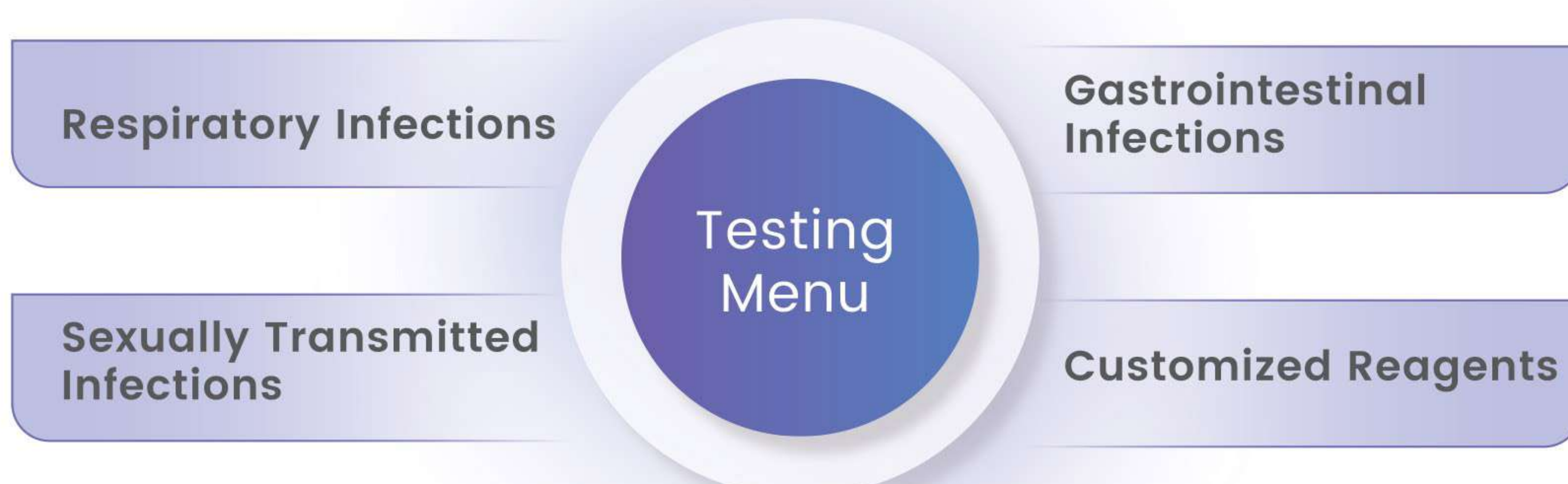
Fewer steps. Walkaway workflow. High quality results.



• Compatible Consumables



Sample in -result out system



Personalized Medication Solution

Fascan 48E

Multi-channel fluorescence quantitative analyzer

Ensure accurate detection for guiding personalized medicine



Pharmacogenomic Reagent

Right drug with right dose, at the right time to the right patient



Assisted Reproduction

- Folic Acid



Cardiovascular Diseases

- Anticoagulation
- Antiplatelet
- Lipid Lowering
- Angina Pector



Rheumatoid Immunity

- Gout
- Immunosuppressant
- Autoimmune Disease



Endocrine Drugs

- Diabetes



Fungal Infection

- Fungal Infection



Oncology

- Breast Cancer
- Colorectal Cancer
- Acute Lymphocytic Leukemia



Disease Risk Genes

- Liver injury
- Senile Dementia
- Apoplexy
- Gout
- Thrombophilia



Digestive System Disease

- Proton Pump Inhibitor
- Helicobacter Pylori



Psychoneurology

- Antidepressant
- Antischizophrenics
- Antiepileptic
- Anesthesia

Diagnostic Kit for HIV(1+2) Antibody (Colloidal Gold)

The HIV colloid gold kit has obtained WHO PQ certification in 2014, and IVDR certification in 2023.



Sample Type	Whole blood, serum, plasma
Sample Volume	40 µL
Detection Time	15-25min
Sensitivity	100% (95% CI)
Specificity	100% (95% CI)
Storage Condition	Up to 24 months at 4-30 °C

POCT

Kit Specifications

Ref. No.	Specification	Sample Diluent	Accessories
KH-R-02	50 tests	4ml x 1 bottle	N/A
KH-R-03	50 tests	4ml x 2 bottle	N/A
R-401-50-C-2	50 tests	4ml x 1 bottle	50
R-401-50-C-3	50 tests	4ml x 2 bottle	50
KH-R-02-CE	50 tests	4ml x 1 bottle	N/A
R-401-1-C-CE	1 test	0.5ml x 1 bottle	1
R-401-25-C-1-CE	25 tests	4ml x 1 bottle	25

Veterinary Diagnostics

Diagnostics-in-a-Suitcase

iGenecase 1600

Take your testing anywhere with this lab in a suitcase

Lab in a suitcase to be more convenient

Flexible to take your testing anywhere

Ideal for your on-site testing needs

Various scenarios applications



GeneFlex 16

Automatic Nucleic Acid Extractor

Flexible Throughput

Small Footprint

Immediate Results



Gentier mini Series

Portable Real-Time PCR System

Portable

Fast

Always Online



Animal Health Detection Reagent



Swine Tests

- Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)
- African Swine Fever Virus (ASFV)
- Classical Swine Fever Virus (CSFV)
- Porcine Viral Diarrhea (PEDV, TGEV, PDCoV, RV)



Artiodactyla Tests

- Foot-and-Mouth Disease Virus (FMDV)
- Brucellosis



Pet Tests

- Feline Upper Respiratory Disease (FURD)
- Feline Panleucopenia Virus (FPV)



Poultry Tests

- Newcastle Disease Virus (NDV)
- Canine Distemper Virus (CDV)

Animal Health Extraction Reagent

- Animal Tissues Genomic DNA
- Animal Virus DNA/RNA

Automatic Brucellosis Detection System

RBT320

Highly efficient to meet large-scale Brucellosis screening needs

Standardized detection
based on the RBT method

AI image recognition to
interpret the results



Automated workflow and
hands-free operation

Compatible with
most common RBT
reagents on the market

Sample Throughput	320T (16T * 20)
Sample Type	Blood serum
Sample Loading Channels	4
Operation Time	24T/4min (320T /hour)
Main Functions	Sample loading Reagent dispensing and mixing Automatic reaction plate placing Photographing AI image recognition Result interpretation

Agglutination

Application Areas



Animal CDC

Epidemiological investigation of Brucellosis in animal disease control centers



Livestock Farms

Evaluating the immunization effect of the Brucellosis vaccines in cattle, sheep, pigs and isolation detection for variety introduction



Testing Laboratory

Providing testing report when quarantine on transfer

Environmental Hygiene Monitoring

Portable ATP Hygiene Monitoring System

Biolum

Your reliable hygiene safety guardian

Result in 10s for one test

Detect down to 10^{-16} mol of ATP

Highly Portable and user-friendly

Pre-configured templates including different industries and locations



Compatible Swabs

ATP Quickswab

QuickSwab

For Surface test

LiquSwab Total

LiquSwab Total

For Liquid test (Total ATP)

LiquSwab Free

LiquSwab Free

For Liquid test (Free ATP)

Accessories



EternalLight-H

LED Calibration Verification for ATP

Portable ATP Hygiene Monitoring System

Biolum Pro

Make hygiene monitoring easier as using a smartphone

Intuitive smartphone design

Cloud-based data management

Verify sanitation in 10s for one test

Detect down to 10^{-16} mol of ATP



Compatible Swabs



Surface test

Accessories



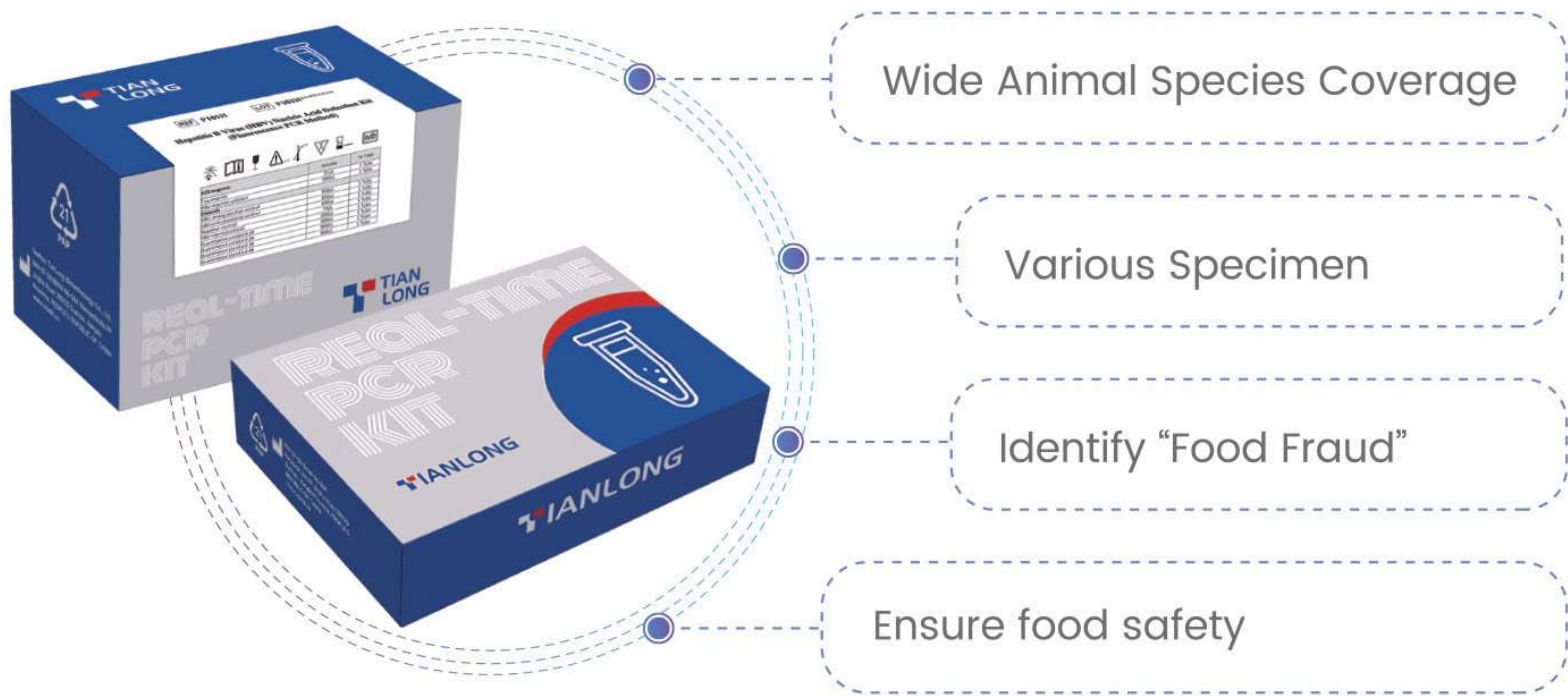
EternalLight-H

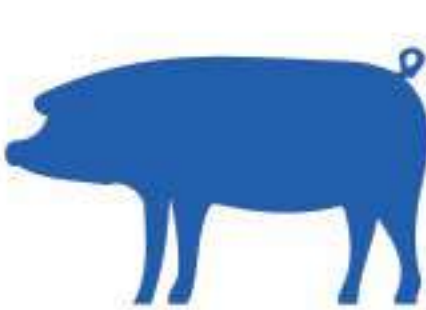
LED Calibration Verification for ATP

Food Safety Monitoring

Animal Species Identification Reagent

Animal species identification in food and feed products has increasingly acquired importance due to public health, economic and legal concerns. Even religious and ethical criteria can be at risk in the case of food adulteration. Tianlong Animal Species DNA Detection Kits offer a broad portfolio of real-time PCR-based animal species detection solutions. The range includes assay kits for pig, cow, equine, sheep, donkey, chicken, duck, goose, dog, cat, mouse, deer, and fox DNA in food samples and animal tissues.



Animal Species							
Detected	✓	✓	✓	✓	✓	✓	✓
Animal Species							
Detected	✓	✓	✓	✓	✓	✓	

Molecular Diagnostics

Application Areas



Food
Manufacturer



Third-party
Laboratory



Inspection and
Quarantine



Bureau of Quality and
Technical Supervision



Institute for Food
and Drug Control



Laboratory Equipment



وستا تجهیز پارت

نشانی: تهران، جردن، ناهید غربی، پلاک ۵۷، ساختمان وستا
تلفکس: ۷۲۸۰۱-۰۲۱ کد پستی: ۱۹۶۶۹۱۶۱۳۱
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KHB
KEHUA BIOTECH



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PRODUCT CATALOG

MADE IN CHINA
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