

KHB & Tianlong
Product
Catalogue

Care for life Dedicate to excellence

Rev.: V3 Rel.: June 22, 2024

Mail: International@skhb.com Phone: +86-21-64950625 Website: https://www.skhb.com/en/ Address: 1189 North Qinzhou Road, 200233, Shanghai

Mail: inquiry@medtl.com Phone: +86-29-82682132 Website: www.medtl.net Address: No. 4266 Shanglin Road, Xi'an, China

About KHB Group

Contents



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 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).

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

Care for life Dedicate to excellence

Clinical Diagnostics

Automatic Clinical Chemistry Analyzer

ZY Series

Clinical Chemistry

Make clincal biochemical detection more convenient and efficient.

	ZY-260	ZY-400	ZY-1200
Model	KNB Common and the common and the co	CARD CS	
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	Miles of	
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
- TB DB

• CHE

AFU

• GPDA

ADA

• 5'-NT

• CG

- ALP
- TP
- ALB
- PA TBA
- γ-GT
- m-AST CIV* LAP*
- MAO* AMM* GR*

Renal Function

- CRE • β2-MG
- UREA α1-MG UA ulgG
- UMA uTRF Cys-C CSF*
- RBP LCλ* NAG LCk* NGAL

- **(6)** Blood Lipid TC
 - sd-LDL-C TG • Lp-PLA2
 - HDL-C MPO* LDL-C PLIP*
 - ApoAl
 - ApoB
 - Lp (a) ApoE

Specific Protein

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

Myocardium

- LDH H-FABP • CTnI* CK
- CK-MB LDH1* α-HBDH
- HCY
- IMA
- ACE MYO

Electrolyte

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

Glycometabolism

- GLU HbAlc
- INS* • GSP*
- D3H
- NEFA
- LAC*
- GA

Tumor Marker

- SA
- PGI PGII
- Fer*

- SGF*

Pancreas

- α-AMY
- LPS PAMY

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

- TRF
- FDP*

Automatic Chemiluminescence Immunoassay Analyzer

Polaris V150 /Polaris i2400

	Polaris V150	Polaris i2400
Model	And many trips	
Configuration	Desktop	Floor-stand; Modular
Throughput	150 tests/hour	360 tests/hour
Sample Capacity	40, STAT available	200, STAT available
Reagent Capacity	15	30
Reaction Cuvette	Automatic loading, up to 200 in one batch	Automatic loading, up to 1000 in one batch

CLIA Reagent

Thyroid

- TSH • TG
- TT3 • Anti-TPO
- TT4
- Anti-TG • TRAb* • FT3
- FT4
- Serum rT3*

Sex Hormones

- LH
- FSH
- PRL
- P(progesterone)
- T(testosterone)

Tumor Markers

- AFP CEA
- t-PSA
- CYfra21-1 f-PSA
 - proGRP

• G-17

- CA125 PGI
- PGII
- CA15-3 HE4
- CA19-9 NSE
 - PIVKA II*
 CA72-4

Infectious Diseases

- HBsAg Anti-HCV
- HBsAg(quant) HIV Ag/Ab Anti-TP
- Anti-HBs
- SARS-CoV-2 NAbs HBeAg
- Anti-HBe

DIG

Cardiac Markers

• β-HCG

AMH

• E2

- cTnl
- hs-cTnl
- MYO
- NT-proBNP
- D-dimer

Glycometabolism

Inflammation Markers

- PCT wCRP
- IL-6 TNF-α
- SAA HBP*
- Drug Monitoring
- Vitamin B12 *Folate*

Anemia

- **Bone Metabolic**

INS

• C-P

 Intact PTH* Vitamin D*

*Coming soon

Microplate Washer

st-36w/st-96w

	ST-36W	ST-96W
Model		
Plate Types	96 well plate or strip (Flat, U-bottom, V-bottom)	96 well plate or strip (Flat, U-bottom, V-bottom)
Wash Mode	Row, single plate, multi plate	Row, single plate, multi plate
Wash Program	100 user defined wash protocols	100 user defined wash protocols
Wash Cycle	0~10	0~100
Dispensing Volume	50-450ul	50-2000ul

Microplate Reader

ST-360/ST-960

	ST-360	ST-960
Model	MATERIAL STATES	
Wavelength Range	400-750 nm	400-1000 nm
Optical Filter Configuration	8 filter positions	8 filter positions
Absorbance Range	0.000-4.000Abs	0.000-4.500Abs
Linear Range	0.000-3.000Abs	0.000-3.000Abs
Test Speed	3 seconds/96 wells (single and dual wavelengths are available)	<5 seconds/96 wells (single and dual wavelengths are available)

ELISA Reagent



- HBsAg
- HBV PreS1
- Anti-HBc IgM • Anti-HBs
- HBeAg Anti-HBe Anti-HBc
- Anti-HAV IgM
- Anti-HEV IgM
- STD
- Anti-HCV Anti-HCV
- HIV Ag/Ab (Sandwich method)
- RPR

Anti-TP

- AFP
- CEA

Anti-HIV

*Coming soon

Tumor Marker

Automatic Sample Processing System

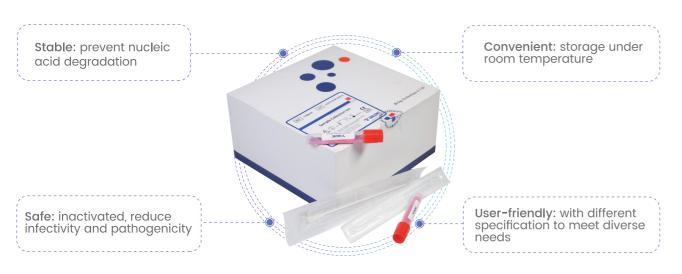
GeneMix Pro

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

	GeneMix Pro	
Model	Consider Pro-	
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



Automatic Nucleic Acid Extractor

GeneFlex/Libex/Npex 192

Optimizing your extraction efficiency with confidence

	GeneFlex	Libex	Npex 192
Model	001		Yuman
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	1001	101	1001
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	ANA WATER CONTRACTOR OF THE PARTY OF THE PAR	
Throughput	96	96
Mixing Method	Rotary Mixing	Rotary Mixing
Processing Volume	30 ~ 1000μL	30 ~ 1000μL
Sample Processing Volume	50µԼ−200µԼ	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

Automated Liquid Handling System

PANA S401

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

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

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+
Name of the Park o	Name Name
16	16
2	4
≥5.0°C/s	≥5.0°C/s
≥4.0°C/s	≥4.0°C/s
	16 2 25.0°C/s

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

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	≥8.0°C/s	≥8.0°C/s
Max. Cooling Rate	≥6.2°C/s	≥6.2°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	VALUE OF THE PARTY	Trans	
Throughput	96	96	
Fluorescence Channels	6	4	
Max. Heating Rate	≥6.1°C/s	≥6.1°C/s	
Max. Cooling Rate	≥5.0°C/s	≥5.0°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	Total S	NAME OF THE PARTY		
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

Molecular Diagnostics

- Foodborne Pathogenic Bacteria
- Escherichia Coli
- Salmonella
- Shiqella
- Salmonella Enterica/Shigella
- Vibrio Parahaemolyticus
- Staphylococcus Aureus
- Vibrio Cholerae

Enteric Adenovirus

- Clostridium Perfringens
- Campylobacter Jejuni
- Bacillus Cereus

Enterovirus

Rotavirus

- Coxsackievirus
- Enterohemorrhagic Escherichia coli
- Sapovirus/Adenovirus/Astrovirus
- 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-1)
 - - Human B-raf
- Human Cytomegalovirus (HCMV)

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 & SLCOIBI

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
- Human Survival Motor Neuron 1 (SMN1)
- Measles/Rubella Virus

• Group B Streptococcus (GBS)

Tropical Infections & Zoonoses

Dengue Virus

ParvoVirus B19

- 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
- Pseudomonas Aeruginosa
- Yersinia Pestis (YP)
- Mycobacterium Leprae

All-in-one Molecular Diagnosis Solution

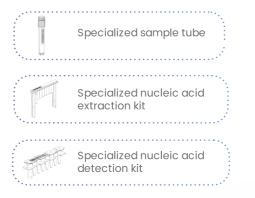
Panall 8000

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

Hypertension

Antiepileptic

Anesthesia

Rheumatoid Immunity

- Gout
- Immunosuppressant

- Autoimmune Disease
- Rheumatoid Arthritis





Fungal Infection

Diabetes



 Antidepresant Antischizophrenics

Oncology Breast Cancer

• Colorectal Cancer

- Acute Lymphocytic Leukemia

Disease Risk Genes

Apoplexy

Psychoneurology

- Liver injury Senile Dementia Gout
- Thrombophilia

Digestive System Disease

Proton Pump Inhibitor

• Helicobacter Pylori

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℃	

• 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



GeneFlex 16

Automatic Nucleic Acid Extractor



Gentier mini Series

Portable Real-Time PCR System



Animal Health Detection Reagent



- Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)
 Classical Swine Fever Virus (CSFV)
- African Swine Fever Virus (ASFV)

- Porcine Viral Diarrhea (PEDV, TGEV, PDCoV, RV)

Artiodactyla Tests

Poultry Tests

- Foot-and-Mouth Disease Virus (FMDV)
- Brucellosis
- **Pet Tests**
- Feline Upper Respiratory Disease (FURD)
- Feline Panleucopenia Virus (FPV)
- Canine Distemper Virus (CDV)

Newcastle Disease Virus (NDV)

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



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 Al image recognition Result interpretation		

Application Areas



Animal CDC

Epidemiological investigation of Brucellosis in animal disease control



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



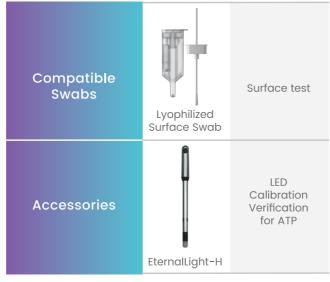
Compatible Swabs	ATP Quickswah	QuickSwab	For Surface test
	THE LOCAL TOP	LiquSwab Total	For Liquid test (Total ATP)
	CERTIFIC LINE THE	LiquSwab Free	For Liquid test (Free ATP)
Accessories		EternalLight-H	LED Calibration Verification for ATP

Portable ATP Hygiene Monitoring System

Biolum Pro

Make hygiene monitoring easier as using a smartphone

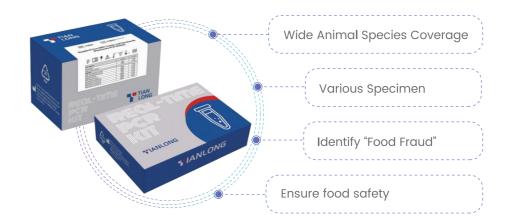


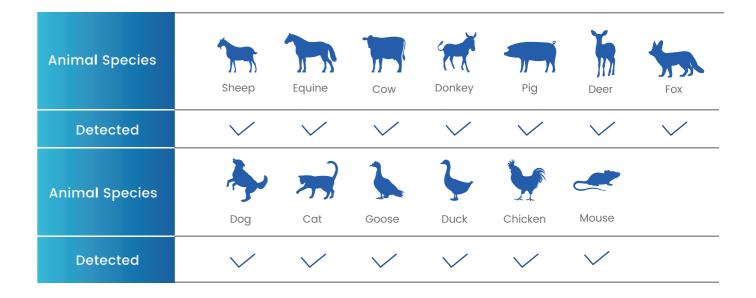


Food Safety Monitoring

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.





Application Areas



Food Manufacturer



Third-party Laboratory



Inspection and Quarantine



Bureau of Quality and Technical Supervision



Institute for Food and Drug Control

Mission
Care for life, dedicate to excellence
Vision
Becoming a mainstay in the IVD field
Values
Customer focus, innovation, collaboration, responsibility and pragmatism

KHB Group Global Office

