



Bring Technology to Life



Tianlong Science and Technology

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🔏 iGenecase 1600

Diagnostics-in-a-Suitcase

Tianlong suitcase laboratory iGenecase 1600 is a good companion for pet diagnostics. It contains all necessary devices and compatible consumables for PCR detection. The small, mobile laboratory fitting in a suitcase can deliver test results quickly and accurately, which is ideal for your on-site testing needs. With mobile power supply, professionals can start the experiment anywhere.



GeneFlex 16 Automatic Nucleic Acid Extractor



Gentier mini





Tianlong is dedicated to providing comprehensive, high-quality and time-efficient in vitro diagnostic solutions for pets. Our robust portfolio consists of detection solutions for feline, canine diseases as well as zoonosis diseases. Tianlong pet diagnostic solutions can assist veterinary professionals in the screening and diagnosis of a wide range of diseases affecting our companion friends and help them live their healthy lives.

SPECIFICATIONS

iGenecase 1600 Diagnostics-in-a-Suitcase			
Weight	33 kg		
Dimensions	500mm (L) × 300mm (W) × 755mm (H)		
Automatic Nucleic Acid Extractor			
Model	GeneFlex 16		
Sample Throughput	16		
Maximum Processing Volume	1700µL		
Recommended Sample Volume	200-500µL		
Compatible Consumables	6-tube strips		
Mixing Method	Rotary Mixing		
Rotation Speed	100~3000rpm		
Temperature Control Range	Temperature control separately for lysis and elution. Temperature range from 30°C to 120°C.		
Temperature Control Accuracy	Heating speed: 4.0±0.2°C/s. Temperature accuracy: ±1.0°C. Temperature uniformity:≤1.0°C.		
Reagent Identification	Automatic identification of reagent information and running the assays		
Magnetic Bead Residue	≤]%		
Weight	7.4 Kg(net)		
Dimensions	210mm (L) × 229mm (W) ×242mm (H)		

Portable Real-Time PCR System

Model	Gentier mini
Throughput	16
Fluorescence Channels	2
Compatible Consumables	0.2mL transparent single tubes, and 8-strip tubes
Dye Compatibility	F1: FAM, SYBR Green I, LC Green, Eva Green, SYTO 9 F2: HEX, VIC, TET, JOE
Max Heating Rate	≥5.0°C/s
Max Cooling Rate	≥ 4.0°C/s
Accuracy of Thermo Control	≤ 0.1°C
Weight	3.2Kg
Dimensions	205mm (L) × 156mm (W) x 153mm (H)

Pet Diagnostic Kit

(Fluorescence PCR Method)	
Extraction and detection reagent in one box	
TIANIONG	
Tian Long	
Endogenous Internal Control Monitor and prevent false negative results effectively With GMP certific tion for qualifie manufacture	
SAMPLE TYPES	
Body secretions Anal swab	

(swab sample from eye, nose and mouth)



KIT COMPONENT

Number of reactions	4 Tests
Pets Pathogens Nucleic Acids Extraction Reagent	4 packs
Pets Pathogens Fluorescence PCR Detection Reagent	4 packs
Magnetic Rod Sleeve	4 packs
Instruction for Use (IFU)	1 piece

REAGENT LIST

📽 Feline

Product Name	Targets	Sample Types	Specifications
Feline Respiratory 5 Types Pathogen Panel	FHV-1, FCV, MF, CF, Bb	Body secretions (swab sample from eye, nose and mouth)	4T/Kit
Feline Stomatitis 4 Types Pathogen Panel	FeLV, FIV, FHV-1, FCV	Body secretions (swab sample from eye, nose and mouth) + EDTA anticoagulated blood	4T/Kit
Feline Coronavirus/ Infectious Peritonitis Virus (FCoV/FIPV)	FCoV, FIPV	Hydrothorax and ascite	4T/Kit
Feline Parvovirus (FPV)	FPV	Anal swab	4T/Kit
Feline Diarrhea 5 Types Pathogen Panel	FPV, FCoV, FAstV, FBoV-1, FeChPV	Anal swab	4T/Kit
Feline Diarrhea 7 Types Pathogen Panel	FPV, FCoV, FAstV, FBoV-1, FBoV-2, FBoV-3, FeChPV	Anal swab	4T/Kit
Feline Anemia 4 Types Pathogen Panel	FIV, FeLV, Bartonella henselae, Mhf	EDTA anticoagulated blood	4T/Kit

Canine

Product Name	Targets	Sample Types	Specifications
Canine Babesia Canis/Gibsoni	Babesia canis, Babesia gibsoni	EDTA anticoagulated blood	4T/Kit
Canine Distemper Virus (CDV)	CDV	Body secretions (swab sample from eye, nose and mouth)	4T/Kit
Canine Respiratory 7 Types Pathogen Panel	CDV, CIV, CPIV, Bb, MC, CC, CAV-2	Body secretions (swab sample from eye, nose and mouth)	4T/Kit

Canine

Product Name	Targets
Canine Anemia 7 Types Pathogen Panel	Babesia canis, Babesia gibsoni, Ehrlichia canis, Anaplasma phagocytopl Hemotropic Mycoplasr Hepatozoon canis, Borrelia burgdorfer
Canine Parvovirus/ Coronavirus (CPV/CCoV)	CPV,CCoV

Feline & Canine

Product Name	Targets	Sample Types	Specifications
Feline/Canine Diarrhea 6 Types Pathogen Panel	Giardia lamblia, Tritrichomonas foetus, Pentatrichomonas hominis, Cryptosporidium, Coccidium, Helicobacter pylori	Stool/Anal swab	4T/Kit

Zoonosis

Product Name	Targets	Sample Types	Specifications
Zoonotic Diseases 3 Types Pathogen Panel	Toxoplasma gondii, Leptospira, Bartonella henselae	EDTA anticoagulated blood	4T/Kit
Zoonotic Diseases 6 Types Pathogen Panel	Toxoplasma gondii, Leptospira, Bartonella henselae, Dirofilaria immitis, Borrelia burgdorferi, Rickettsiae	EDTA anticoagulated blood	4T/Kit

APPLICATION AREA



Animal Hospital

Pet Lab

ASSAY WORKFLOW



Sample Types	Specifications
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EDTA anticoagulated blood hilum, ma,

4T/Kit

Anal swab

4T/Kit





Animal CDC



Research Institute

Feline Respiratory 5 Types Pathogen Panel **Nucleic Acid Detection Kit**

Common respiratory diseases in pets are mostly caused by pathogen infection, and the clinical symptoms after the onset are more similar, especially the clinical symptoms in the early stage are mild. But if not taking effective treatment in time, the disease can progress rapidly, resulting in serious consequences.

Tianlong Feline Respiratory 5 Types Pathogen Panel is suitable for in vitro qualitative detection of nucleic acids of Feline Herpesvirus-1(FHV-1), Feline Calicivirus(FCV), Mycoplasma felis(MF), Feli-dae chlamydiae(CF), Bordetella bronchiseptica(Bb) in cat oral nasopharyngeal swab samples. It aims to quickly and accurately detect common feline respiratory pathogens, assisting in the diagnosis of feline respiratory infections and public medical management.



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DATA INTERPRETATION

Figure 1: Tianlong Feline Respiratory 5 Types Pathogen Panel gradient amplification curve



APPLICABLE INSTRUMENT



Nucleic Acid Extractor	Tianlong GeneFlex 16	16	CE/FDA
Real- Time PCR System	Tianlong Gentier mini	16	CE/FDA
ORDERING INFORM	ATION Feline Respiratory 5 Types	Pathogen Panel Nucl	eic Acid Detection Kit
ORDERING INFORM Product Name Cat.No	ATION Feline Respiratory 5 Types (Fluor	Pathogen Panel Nucl rescence PCR Method C001H	eic Acid Detection Kit)
ORDERING INFORM Product Name Cat.No Specification	ATION Feline Respiratory 5 Types (Fluor	Pathogen Panel Nucl rescence PCR Method C001H 4T/Kit	eic Acid Detection Kit)
ORDERING INFORM Product Name Cat.No Specification Sensitivity	ATION Feline Respiratory 5 Types (Fluor	Pathogen Panel Nucl rescence PCR Method C001H 4T/Kit 700 copies/mL	eic Acid Detection Kit)
ORDERING INFORM Product Name Cat.No Specification Sensitivity Target Pathogen	ATION Feline Respiratory 5 Types (Fluor Feline Herpesvirus Mycoplasma feli Bordet	Pathogen Panel Nucl rescence PCR Method C001H 4T/Kit 700 copies/mL -1(FHV-1), Feline Cal s(MF), Felidae chlam ella bronchiseptica (B	eic Acid Detection Kit) civirus(FCV), ydiae(CF), b)
ORDERING INFORM Product Name Cat.No Specification Sensitivity Target Pathogen Specimen	ATION Feline Respiratory 5 Types (Fluor Feline Herpesvirus Mycoplasma feli Bordet Body secretions (swa	Pathogen Panel Nucl rescence PCR Method C001H 4T/Kit 700 copies/mL -1(FHV-1), Feline Cal s(MF), Felidae chlam ella bronchiseptica (B	eic Acid Detection Kit) civirus(FCV), ydiae(CF), b)

FEATURES



Simplify Laboratory Workflow

Differential diagnostics of the five feline upper respiratory pathogens in a single run, 5 in 1 test for Feline Herpesvirus-1(FHV-1), Feline Calicivirus(FCV), Mycoplasma felis(MF), Felidae chlamydiae(CF), Bordetella bronchiseptica(Bb), fast detection within 40 minutes for report

222*

Stable and Convenient

Freeze-dried type reagent, easy for storage and transportation, also avoiding contamination



Endogenous Internal Control

With endogenous internal control in the kit to monitor and prevent false negative results effectively

High Precision

The precision values of intra and inter Ct values were all≤3%

More accurate

Collocating with Tianlong extraction reagent makes your experiment results more accurate



Figure 2: High concentration and low concentration repetitive amplification curve

Sample Throughput

Certification

Feline Parvovirus (FPV) Nucleic Acid Detection Kit

Feline Panleukopenia (also called feline distemper) is an acute, highly contagious disease of cats caused by feline parvovirus (FPV). Clinical manifestations are characterized by sudden onset of high fever, intractable vomiting, diarrhea, dehydration, circulatory disturbances, and a dramatic decrease in white blood cells. Feline panleukopenia is a big disease threat for cat since it carries a very high mortality rate, particularly in unvaccinated kittens.

Feline Parvovirus (FPV) Nucleic Acid Detection Kit developed by Tianlong is suitable for in vitro qualitative detection of feline parvovirus nucleic acid in feces, intestinal cleanse, and anal swab samples of affected cats. It aims to quickly and accurately detect common feline parvovirus and assist in the diagnosis and treatment of feline parvovirus infections.

SIGNS OR SYMPTOMS



FEATURES



Reliable Detection

Reliable detection of Feline Parvovirus Virus (FPV) in cats, fast detection and report in only 40 min (15 min for extraction, 25 min for PCR detection)



Endogenous Internal Control

With endogenous internal control in the kit to monitor and prevent false negative results effectively

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RT-PCF

Stable and Convenient

Freeze-dried type reagent, easy for storage and transportation, also avoiding contamination

Providing Integrated Solution

Provides a rapid test solution that detects FPV with a high degree of sensitivity and specificity

High Precision

The precision values of intra and inter Ct values were all <3%

DATA INTERPRETATION





APPLICABLE INSTRUMENT



ORDERING INFORMATION

Product Name	Feline Parvovirus (FPV) Nucleic Acid Detection Kit (Fluorescence PCR Method)	
Cat.No	С003Н	
Specification	4T/Kit	
Specimen	Anal swab	
Sensitivity	600 copies/mL	
Precision	<3%	
Storage & Validity	2°C to 30°C for 12 months	





Sample Throughput

Certification

16	CE/FDA
16	CE/FDA

Feline Coronavirus/ Infectious Peritonitis Virus (FCoV/FIPV) Nucleic Acid Detection Kit

Feline Coronoavirus (FCoV) is a common viral infection in cats that most often causes asymptomatic infection, but also cause mild diarrhea. FCoV can undergo mutations and transform into Feline Infectious Peritonitis Virus(FIP) virus. A small percentage of cats infected with FCoV will develop into FIPV, which leads to the fatal disease Feline Infectious Peritonitis.

Tianlong Feline Coronavirus/ Infectious Peritonitis Virus (FCoV/FIPV) Nucleic Acid Detection Kit provides a reliable and rapid solution for the qualitative detection of FCoV/FIPV nucleic acid in hydrothorax and ascite samples. The kit can assist professionals in the fast and accurate diagnosis of FCoV and FIPV infections.

SIGNS OR SYMPTOMS



FEATURES

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Simplified Workflow

Reliable detection and differentiation of FCoV and FIPV in one run **Fast Detection** Fast detection and report in only 40 min (15 min for extraction, 25 min for PCR detection) Stable and Convenient Freeze-dried type reagent, easy for storage and transportation, also avoiding contamination _____ Endogenous Internal Control

With endogenous internal control in the kit to monitor and prevent false negative results effectively

Providing Integrated Solution

Provides a rapid test solution that detects FCoV/FIPV with a high degree of sensitivity and specificity

DATA INTERPRETATION

Figure 1: Gradient concentration FCoV amplification curve



APPLICABLE INSTRUMENT



Product	: Name	Sample Throughput	Certification
Nucleic Acid Extractor	Tianlong GeneFlex 16	16	CE/FDA
Real- Time PCR System	Tianlong Gentier mini	16	CE/FDA
ORDERING INFOR	MATION		
Product Name	Feline Coronavirus/ Nucleic Acid Det	Infectious Peritonitis Virus (FC Section kit (Fluorescence PCR N	CoV/FIPV) Method)
Cat.No		C002H	
Specification		4T/Kit	
Specimen	Hydrothorax and ascite		
Sensitivity	≤1000 copies/mL		
Precision	<2%		
Storage & Validity	2°	C to 30°C for 12 months	



Canine Distemper Virus (CDV) Nucleic Acid **Detection Kit**

Canine distemper is a contagious disease caused by the canine distemper virus (CDV). The distemper virus works by attacking the respiratory, gastrointestinal, and neurologic systems of dogs. This highly transmissible virus can also infect wild animals, such as raccoons, foxes, etc. Young or unvaccinated dogs are most susceptible.

Tianlong Canine Distemper Virus (CDV) Nucleic Acid Detection Kit provides a reliable and rapid detection solution for the qualitative detection of CDV nucleic acid in swab samples from eye, nose, and mouth of infected dogs. Based on the fluorescence PCR method, the kit can assist professionals in fast and accurate diagnosis of CDV infections.

SIGNS OR SYMPTOMS



TRANSMISSION ROUTE



FEATURES

Fast Detection

Reliable and fast detection of Canine Distemper Virus (CDV), report in only 40 min (15 min fo
extraction, 25 min for PCR detection)

Stable and Convenient

Freeze-dried type reagent, easy for storage and transportation, also avoiding contamination

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Endogenous Internal Control

With endogenous internal control in the kit to monitor and prevent false negative results effectively



GMP

Providing Integrated Solution

Provide complete solution including devices and reagents that detects CDV with a high degree of sensitivity and specificity

GMP Certified

Stick to the high-standard production process with GMP certification for qualified manufacture



Figure 1: Gradient concentration CDV amplification curve



APPLICABLE INSTRUMENT



Tianlong GeneFlex 16	16	CE/FDA
Tianlong Gentier mini	16	CE/FDA
TION		
Canine Distemper V (Fluo	irus (CDV) Nucleic A rescence PCR Method	cid Detection Kit)
	C101H	
4T/Kit		
Body secretions (swab sample from eye, nose and mouth)		
≤1000 copies/mL		
<1%		
2°C	to 30°C for 12 months	3
	Tianlong GeneFlex 16 Tianlong Gentier mini TION Canine Distemper V (Fluor Body secretions (swa	Tianlong GeneFlex 16 16 Tianlong Gentier mini 16 Tianlong Gentier mini 16 Conine Distemper Virus (CDV) Nucleic Ac (Fluorescence PCR Method) Cloih 4T/Kit Body secretions (swab sample from eye, no <loid copies="" ml<="" td=""> <1% 2°C to 30°C for 12 months</loid>

Figure 2: High concentration CDV repetitive amplification curve 5000 -4000



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🔏 Attached File

SOP for Pet Pathogens Detection

Step 1: Sample collection

Sample Type	Sample Processing	
Body secretions (swab sample from eye, nose and mouth)	Moisten the sampling swab with normal saline; Collect the eye swab sample by fully wiping the moistened swab under the eye lid of the affected pet; Collect the nose and mouth swab by dipping the oral and nasal secretions; Then place the swab in a centrifuge tube with ImL normal saline, fully mix and centrifuge the sample tube before use.	
Anal swab	Moisten the sampling swab with normal saline; Swab the perianal or shallow into the anus of the affected pet for sampling; Then place the swab in a centrifuge tube with ImL normal saline. Fully mix and centrifuge the sample tube before use.	
Stool	Dip appropriate amount of stools with sampling swab and place it in a centrifuge tube with 1mL normal saline. Fully mix and centrifuge the sample tube before use.	
Hydrothorax and ascite	Collect 500uL hydrothorax and ascite sample in a centri- fuge tube with 500uL normal saline. Fully mix and centri- fuge the sample tube before use.	
EDTA anticoagulant blood	Use EDTA anticoagulant tube to collect the whole blood of the affected pet. Mix it upside down before use.	

Step 2: Nucleic acid extraction

1) According to the number of test samples, take out the corresponding numbers of Pets Pathogens Nucleic Acid Extraction Reagent and place on the single kit docking (provided with extractor). Gently tear off the aluminum foil sealing film to avoid vibration and prevent liquid splash

2) Use a pipettor to absorb 400µL prepared liquid sample and add to the second well of the extraction reagent, and then put the magnetic rod sleeve into the first well.

3) Open the GeneFlex Nucleic Acid Extractor, click the "Out" button, put the extraction reagent with the single kit docking into the instrument, and then click the "Run" button. Click "Yes" to start the nucleic acid extraction program after the magnetic rod sleeve self-check is correct.



Step 3: PCR detection

1) After nucleic acid extraction, open the Pets Pathogens PCR Detection Reagent tubes and use the pipettor to add 20µL extracted pathogens nucleic acids to each tube from the fifth well of the extraction reagent. Close the lids and thoroughly vibrate the tubes for fully remelting and mixing the freeze-dried powder. Then centrifuge the liquid to the bottom of the tube while avoiding bubbles present.

2) Place the PCR reagent tubes on the reaction hole of the Gentier mini Portable Real Time PCR System, and then close the cover plate of the instrument. Select the corresponding pet pathogen detection project, set the detection hole position and sample information, and then click the "Run" button to start the fluorescence PCR detection program.



3) After PCR detection, the instrument automatically displays the negative or positive result, Ct value and fluorescence amplification curve of each tested item. The test report can be printed after completing sample information in Tianlong report management system on computer.







