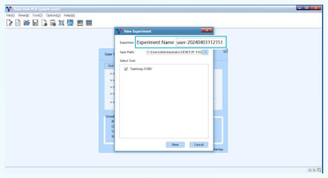
4 Analysis and Report

1 Open the Tianlong PCR analysis software on the computer, click "File" > "Set new experiment based on Template" > Select the experiment protocol and set the name of the experiment > Set the samples in the PCR machine according to the number of samples and the position of PCR tubes> Run the experiment;

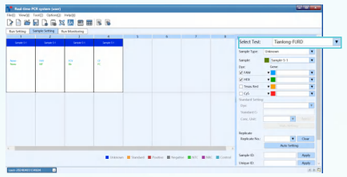
2 After the experiment, the software will automatically analyze and report negative and positive results. If the internal control is normal, then the experiment result is valid.

3 Click the report management system, complete the report information, and then you can choose to print the report.

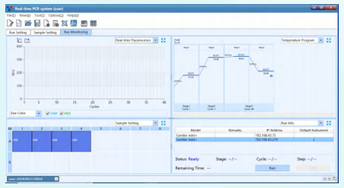
- Set new experiment: open the Tianlong PCR analysis software, run a new experiment from existing templates



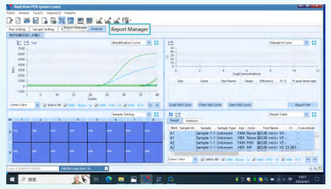
- Select protocol: select the protocol of Tianlong FURD detection and rename the run



- Sample setting: set the samples in the instrument in accordance with the number of samples and the position of PCR tubes. Select the well and choose the experiment protocol



- Start detection: start running the experiment and monitoring the detection process



- Report export: after the experiment, click report management in the analysis interface, input the sample information, and print the report

APPLICATION AREA

Vet Clinic

Animal Hospital

Pet Lab

Animal CDC

Research Institute

Version 3.0

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Bring Technology to Life

TIAN LONG

Feline Upper Respiratory Disease (FURD) Real-time PCR Panel

(Fluorescence PCR Method)

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 Upper Respiratory Disease (FURD) Real-time PCR Panel is suitable for in vitro qualitative detection of nucleic acids of Feline Herpesvirus-1(FHV-1), Feline Calicivirus(FCV), Mycoplasma felis(MF), Felidae 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.

FEATURES

5 in 1

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

Internal Control

The use of internal control system in the kit can effectively prevent false negative results

User-friendly

Widely applicable in instruments with FAM, HEX channels

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

DATA INTERPRETATION

Figure 1: Tianlong Feline Upper Respiratory Disease (FURD)Real-time PCR Panel gradient amplification curve

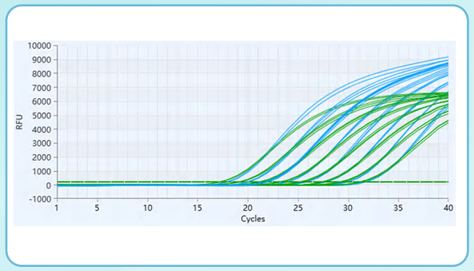
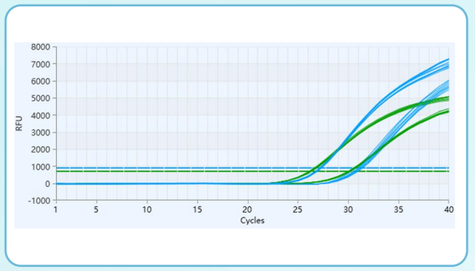


Figure 2: High concentration and low concentration repetitive amplification curve



APPLICABLE INSTRUMENT

	Product Name		Sample Throughput	Certification
Nucleic Acid Extractor		Tianlong GeneFlex 16	16	CE/FDA
Real-Time PCR System		Tianlong Gentier mini Series	16	CE/FDA

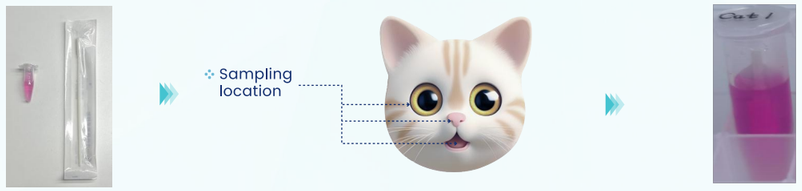
ORDERING INFORMATION

Product Name	Feline Upper Respiratory Disease (FURD) Real-time PCR Panel (Fluorescence PCR Method)
Cat.No	P360H
Specification	8T/Kit
Sensitivity	700 copies/mL
Target Pathogen	Feline Herpesvirus-1(FHV-1), Feline Calicivirus(FCV), Mycoplasma felis(MF), Felidae chlamydiae(CF), Bordetella bronchiseptica(Bb)
Specimen	Oral nasopharyngeal swab sample
Storage & Validity	-25℃~-15℃ for 6 months

ASSAY WORKFLOW

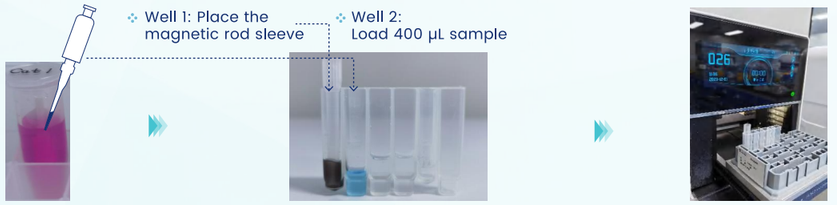
1 Sample Collection

1. Open the Tianlong nucleic acid extraction kit for pet diagnosis and take out the sampling collection set. Sample the secretions from the mouth, nose and eyelid of the infected pet (wet swab sampling);
2. Label the sample tubes after collection and mix the sample upside down for 5 times. Put the sample tubes on the sample rack for use later.



2 Nucleic Acid Extraction

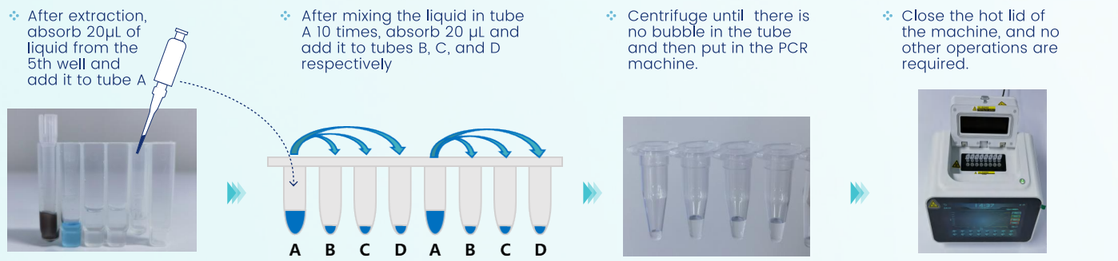
1. Open the Tianlong nucleic acid extraction kit for pet diagnosis and take out the nucleic acid extraction reagent strip. Tear off the packaging bag and put the reagent strip on the specialized base;
2. Gently tear off the aluminum foil sealing film (avoid vibration to prevent liquid splash). Absorb 400μL of the liquid in the sample tube (step 1), add it into the second hole of the reagent strip, and put the magnetic sleeve in the first hole;
3. Take out the attached program sticker in the kit and paste it to the left of the base. Then put the base with reagent strip and filled samples in the extraction machine. Click the Run button to start extraction.



*1000 μL pipette and pipette tips are needed for this step

3 PCR Detection

1. Open the Tianlong Feline Upper Respiratory Disease (FURD) Real-time PCR Panel and take out the detection reagent according to the number of samples. Melt the reagents at room temperature;
2. After nucleic acid extraction, absorb 20μL of the liquid from the fifth hole of the extraction reagent strip(step 2), and add it into detection reagent tube A. Mix the reagent for 10 times;
3. Add 20μL of liquid from tube A to tubes B, C, and D respectively, and close the tube cap. Gently mix the liquid of tubes B, C, and D and centrifuge for 5 seconds. Wait until no bubbles in the tubes, and put it into the PCR machine.



*20 μL pipette and pipette tips are needed for this step