



Life Real



Pet Ready

Pets Automatic Integrated Gene Detection System



- One hour report



- Preset kit: all in one



- No need for PCR laboratory

01 PRINCIPLE

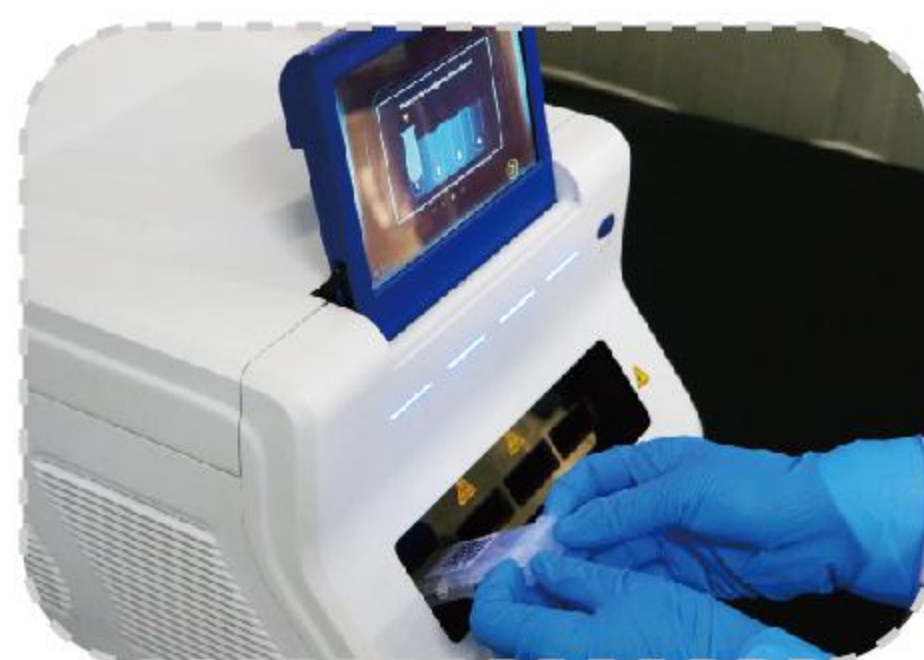
- The main pathogens that cause common infectious diseases in pets are viruses, bacteria, mycoplasma and chlamydia, and parasites, which seriously endanger the health of pets.
- The cartridge of the PetReady detection system combines microfluidics, nano-superparamagnetic beads nucleic acid extraction, fluorescence real-time PCR, enzyme and reagent critical state preservation technologies, which is pre-installed with the extraction and amplification reagents, so to realize the fully-closed automatic output from the sample to the gene detection result. It avoids the shortcomings of the conventional molecular detection with false positive results, although with high sensitivity.

02 WORKFLOW

- Easy manual operation in 2 minutes
- Sample types: swab, body fluid, etc.



Sampling

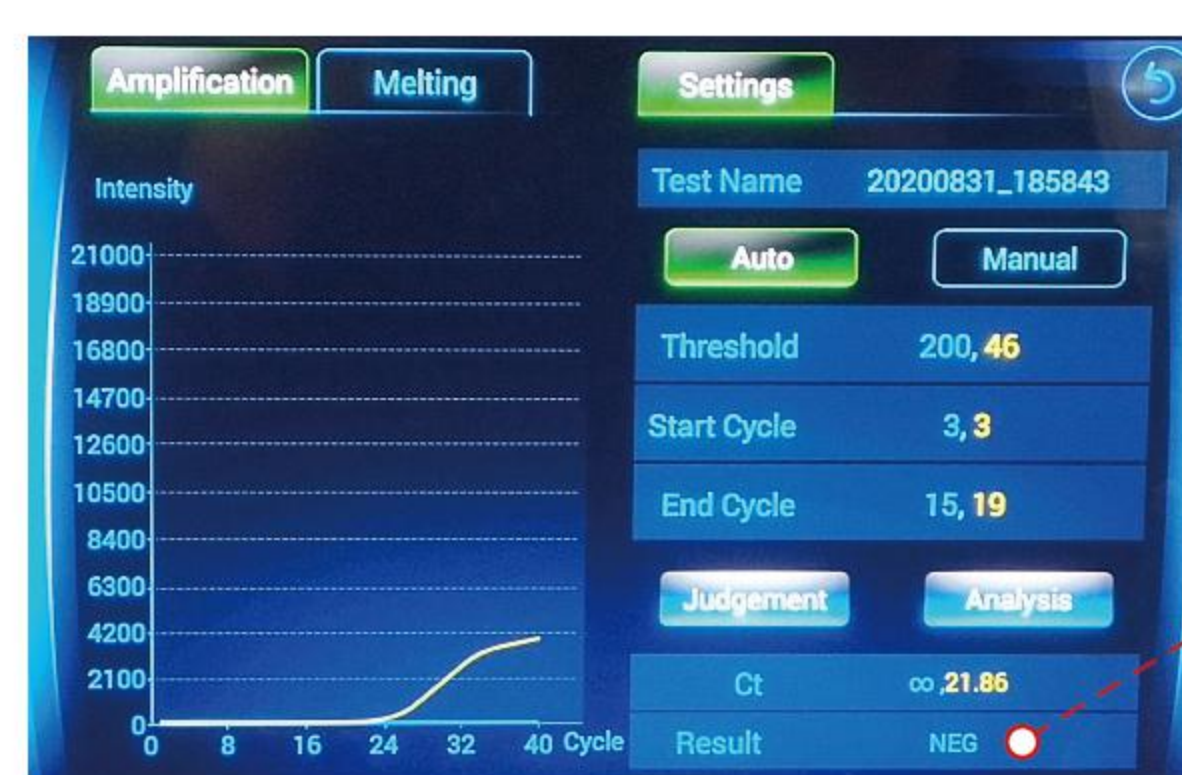


Load cartridge to the machine



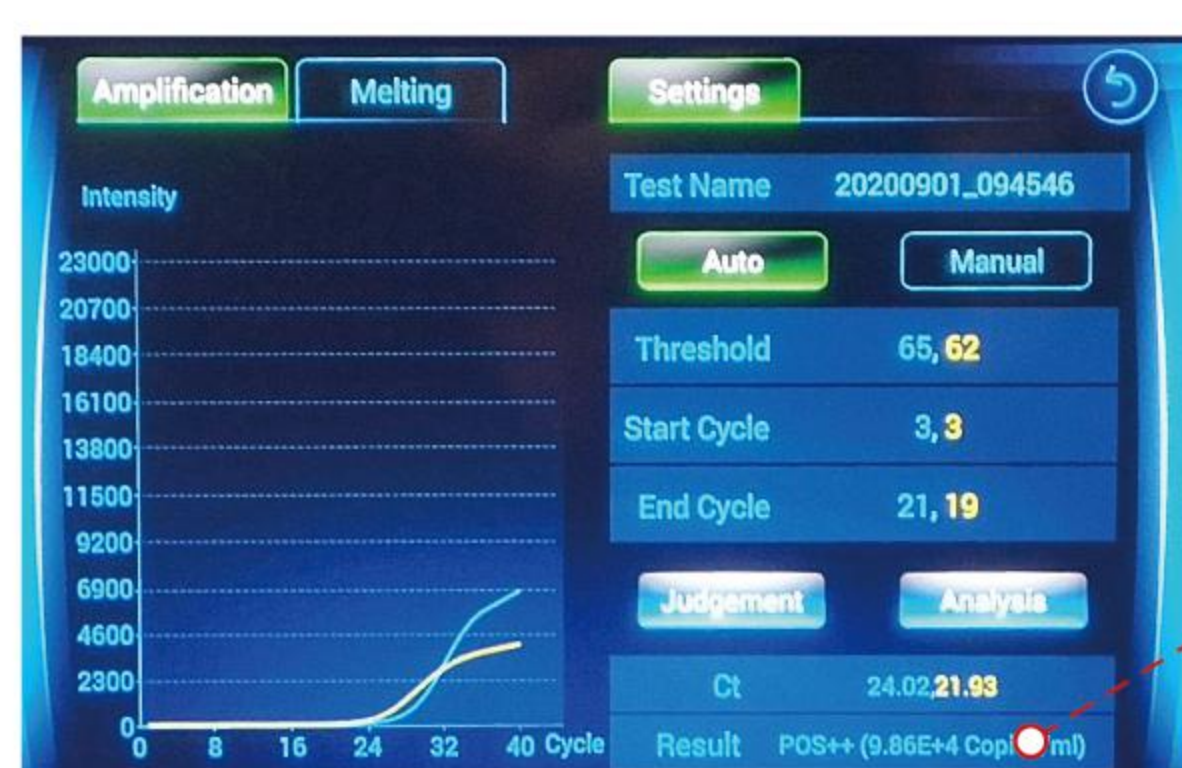
Report

03 AUTOMATIC RESULTS



Ct	∞, 21.86
Result	NEG

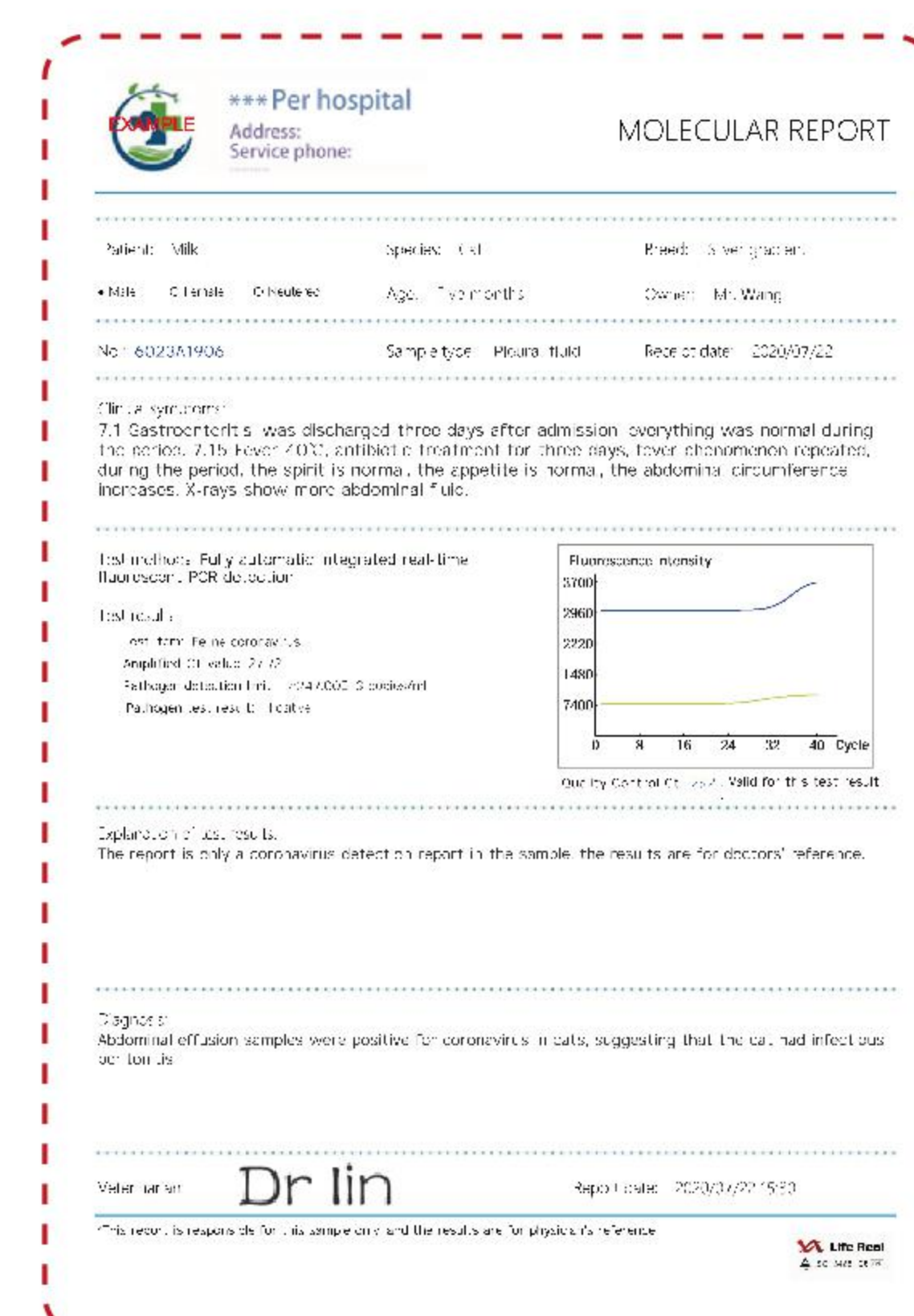
Negative result



Ct	24.02, 21.93
Result	POS++ (9.86E+4 Copies/ml)

Positive result

04 PROFESSIONAL REPORT



05 ADVANTAGES



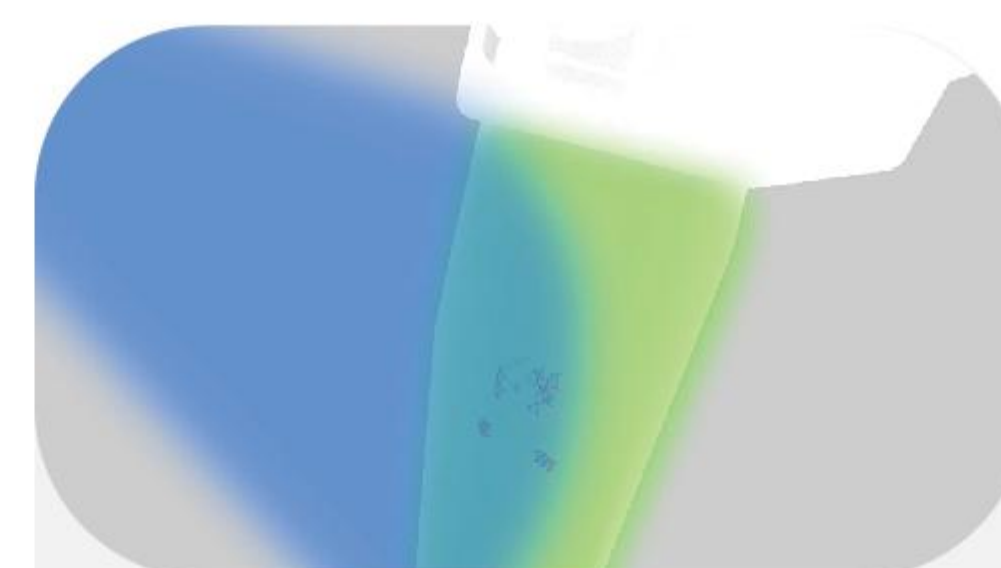
Easy manual operation in 2 minutes

Place the swab in the buffer and mix well. And then take the supernatant, add it to the cartridge, add magnetic beads with internal control, and run the built-in program automatically to get the result.



Scanning bar code or click Rapid Run, no need to set the program

Load the complex program settings by scanning bar code on the kits, easy to operate.



Real-time Fluorescent PCR Technology, High Sensitivity

It combines the specificity and sensitivity of PCR detection technology, which shortens the window period of disease detection, and all the extracted nucleic acids from the sample enter the reaction system, which greatly improves the sensitivity



Fully-closed Microfluidic Kit, No Contamination

PetReady cartridge with the unique design can control reagents flow in one direction. Owing to the microfluidic valves and sealed separate units, it avoids the contamination. So the system can be placed under the ordinary lab environment.



From sample to report as less as in 1 hour

The whole process, including the extraction, purification, amplification and detection of sample, will be done in about one hour, which shortens the period of detection.



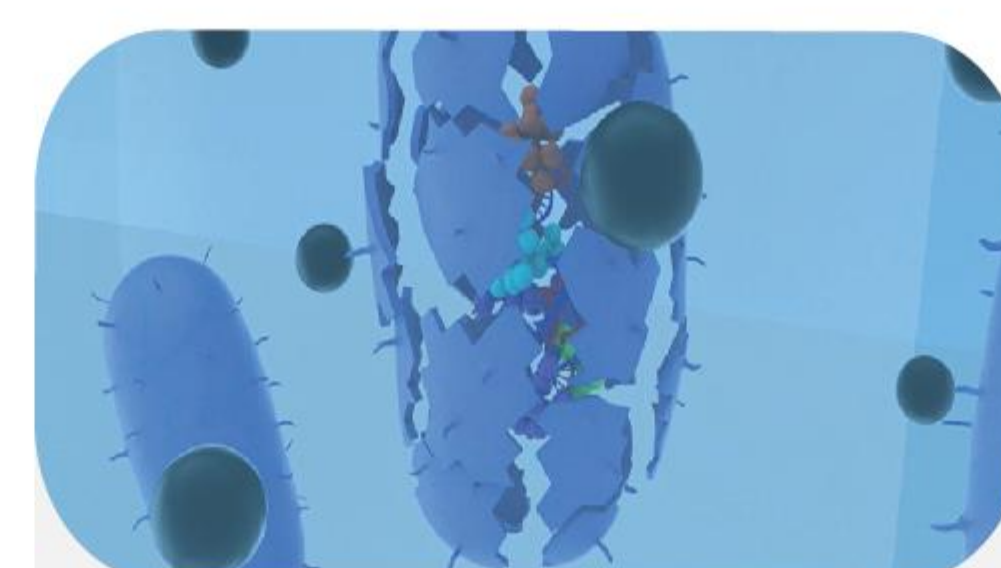
Multi-channel on-demand inspection, Timely diagnosis

One machine can detect four different samples or items at any time, it realizes the function of four individual machines.



Complete range of kits, Meet various testing needs

The available kits cover common detection items of pathogens. In addition, there are more kits coming soon.



Pathogen Quantitative Detection, Monitoring the treatment process

When the report is made, it prompts the concentration of the pathogen, so to assist in judging the degree of the disease, and it is also used to monitor the treatment effect and guide the medication process.

06

COMPARES



Extraction of microfluidic nano-magnetic beads and
real-time fluorescent PCR Detection



The structure of cells in the sample was broken under the action of heating and reagents, so to release the nucleic acids, which were specifically bound to the nano-magnetic beads.



Under the action of a controlled changing magnetic field, nucleic acid substances can be purified through the various different reagents of the microfluidic kit.



Under the high-precision semiconductor based temperature control, the polymerase chain reaction is carried out. And the nucleic acids are amplified to hundreds of millions of times, finally detected by the low-light photomultiplier tube (PMT) so to get the results.

Comparison With Test Strip

PetReady system	Test Strip
1-10 viruses can be detected in principle	The estimated volume of tested virus is 10 ⁶
No window period basically	The window period is 1-2 weeks
Accuracy>98%	Accuracy 60%-70%
Judge the degree of illness according to the Ct value detected by system	Judge the degree of illness according to the experience or roughly automatically

Comparison With Other Molecular Diagnostics

	PetReady system	One-step RT-PCR	Portable isothermal amplification method	Extraction + Amplification (Automatic)
Anti-contamination	No contamination	Contaminated Easily	Contaminated Easily	Contaminated Easily
Detection Performance	4 individual channels, detection on-demand	Test one item at one time	Test one item at one time	Test one item at one time
Accuracy	Extremely high	Medium	Low	High
Sensitivity	Extremely high	Medium	Low	High
Sample Pretreatment	No	Yes	Yes	Yes
Detection Time	About 1 hour	About 1.5 hour	About 1 hour	About 1.5 hour

AIGS ▶

Model/Order No.	PetReady 200
Light source	LED
Detector	PMT photomultiplier tube
Temperature control module	Semiconductor
Block temperature range	40°C-99.9°C
Block temperature fluctuation	≤±0.5°C
Block temperature accuracy	≤0.5°C
Temperature display accuracy	0.1°C
Dyes	FAM, ROX
Display	7-inch color touch screen
Power supply	AC100-240V, 50/60Hz, 350W
Data connector	LAN, USB, WiFi
Size	Length 380mm* Width 305mm* Height 343mm

Recommended Supporting Products ▶

Product name	Order No.
GeneReady Utmate	BSH-CL2
GeneReady Tissue P I Kit	KT01-200



* Sample type: tissue, feces, other samples that need pre-processing.

Product name	Order No.
Mixer	V01001



* For shaking and mixing reagents and samples.

Product name	Order No.
Mini centrifuge	SpinReady 5000



* Used for sample centrifugation to get the supernatant.

Product name	Order No.
AccuReady M Single Channel 0.5-10μL	M01020
AccuReady M Single Channel 20-200μL	M01060



* For adding magnetic beads, internal standards, samples.

Detection Kits ▶

Product name	Packing	Description	Order No.
Canine Distemper Virus (CDV) Detection Kit	24 Tests/Kit	RNA	B0002A
Canine Parvovirus (CPV) Detection Kit	24 Tests/Kit	DNA	B0003A
Canine Coronavirus (CCV) Detection Kit	24 Tests/Kit	RNA	B0004A
Canine Herpes Virus (CHV) Detection Kit	24 Tests/Kit	DNA	B0006A
Pseudorabies Virus (PRV) Detection Kit	24 Tests/Kit	DNA	B0021A
Rabies Virus (RV) detection kit	24 Tests/Kit	DNA	B0022A
Canine Adenovirus (CAV-1, hepatitis) Detection Kit	24 Tests/Kit	DNA	B0023A
Canine Adenovirus (CAV-2, respiratory tract) Detection Kit	24 Tests/Kit	DNA	B0024A
Canine Heartworm (Di) Detection Kit	24 Tests/Kit	DNA	B0026A
Feline Parvovirus (FPV) Detection Kit	24 Tests/Kit	DNA	B0005A
Feline Coronavirus (FCoV) Detection Kit	24 Tests/Kit	RNA	B0008A
Feline Herpes Virus (FHV) Detection Kit	24 Tests/Kit	DNA	B0009A
Feline Calicivirus (FCV) Detection Kit	24 Tests/Kit	RNA	B0010A
Mycoplasma Feline (MF) Detection Kit	24 Tests/Kit	DNA	B0011A
Chlamydia Feline (CF) Detection Kit	24 Tests/Kit	DNA	B0012A
Feline Leukemia Virus (FeLV) Detection Kit	24 Tests/Kit	RNA	B0013A
Tox Gondii (Tox) Detection Kit	24 Tests/Kit	DNA	B0015A
Leptospira (Lept) Detection Kit	24 Tests/Kit	DNA	B0016A
Barton's Disease (Bar) Detection Kit	24 Tests/Kit	DNA	B0017A
Mycoplasma Haemophilus (Mha) Detection Kit	24 Tests/Kit	DNA	B0018A
Bordetella (BB) Detection Kit	24 Tests/Kit	DNA	B0019A

* More detection kits coming soon!