

ALGS-I Automatic Integrated Gene Detection System (Veterinary)



Features

- 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 H-RS 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.

Advantages

1. Fully-closed Microfluidic Kit, No Contamination

H-RS 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.

2. 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

3. 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.

4. Portability of a single channel

Single channel, small footprint, compact and portable

5.Ct value Assists clinical judgment

When the report is output, the displayed Ct value can be used to help judge the extent of the disease, and also to evaluate the treatment effect and guide clinical medication.

6.Multiple Pathogens, Simultaneous Detection! (2 Duplex Kits/3 Triplex Kits/4 Multiplex Kits)

The same instrument can achieve the combination of single-sample multi-pathogen detection, respiratory tract, digestive tract and other detection to meet the common detection needs of pet doctors in clinical diagnosis and treatment, spend less time on testing, and reduce laboratory budgets.

Technical Specifications

PARAMETERS	SPECIFICATIONS
Model	AIGS-I
Excitation light source	LED
Detector	PMT photomultiplier tube
Block max. ramping rate	≥4°C
Block temperature range	40°C-99.9°C
Block temperature fluctuation	≤0.3°C
Temperature display accuracy	0.1°C
Sample linearity	r ≥0.98
Detection range	10~10 ⁹ copies/ml
Dyes	F1:FAM、SYBER Green I F2:HEX、VIC F3:TEX RED、ROX F4:CY5
Fluorescence detection time	≤5s
Display	7-inch color touch screen
Power supply	AC100-240V,50/60HZ,120W
Data connector	USB,WIFI,Network cable
Size	Length 278mm*Width 190mm*Height 343mm

Single Target Detection Kit

PRODUCT NAME	DESCRIPTION
Feline Parvovirus (FPV) Detection Kit	DNA

Feline Coronavirus (FCoV) Detection Kit	RNA
Feline Herpes Virus (FHV) Detection Kit	DNA
Feline Calicivirus (FCV) Detection Kit	RNA
Mycoplasma Feline (MF) Detection Kit	DNA
Chlamydia Feline (CF) Detection Kit	DNA
Feline Leukemia Virus (FeLV) Detection Kit	RNA
Feline HIV (FIV) Detection Kit	RNA
Tox Gondii (ToxG) Detection Kit	DNA
Leptospira (Lept) Detection Kit	DNA
Barton's Disease (Bar) Detection Kit	DNA
Mycoplasma Haemophilus (Mha) Detection Kit	DNA
Bordetella (BB) Detection Kit	DNA
Babesia virus Detection Kit	DNA
Canine Distemper Virus (CDV) Detection Kit	RNA
Canine Parvovirus (CPV) Detection Kit	DNA
Canine Coronavirus (CCov) Detection Kit	RNA
Canine Herpes Virus (CHV) Detection Kit	DNA
Pseudorabies Virus (PRV) Detection Kit	DNA
Rabies Virus (RV) Detection Kit	RNA
Canine Adenovirus (CAV-1,hepatitis) Detection Kit	DNA
Canine Adenovirus (CAV-2,respiratory tract) Detection Kit	DNA
Canine Heartworm (CHW) Detection Kit	DNA

Multiplex Kits

DESCRIPTION	PRODUCT NAME
2 Multiplex Kits	Feline Respiratory Duplex Test Kit (FCV+FHV)
	Feline Respiratory Duplex Test Kit 2 (MF+CF)
	Feline Diarrhea Duplex Test Kit (FCoV+FPV)
	Canine Diarrhea Duplex Test Kit (CCoV+CPV)
	Canine Respiratory Duplex Test Kit 2 (CAV2+BB)
	Common Duplex Test Kit (ToxG+Lept)
	Canine Respiratory Duplex Test Kit (CDV+CHV)
	Feline Respiratory Triplex Test Kit (FCV+FHV+MF)
	Feline Respiratory Triplex Test Kit 2 (FHV+ MF+CF)
	Canine Respiratory Multiplex Test Kit 2 (CDV+Cav2+Parainfluenza)

3 Multiplex Kits	Feline Stomatitis Triplex Test Kit (FHV+FCV+FeLV)
	Canine Respiratory Triplex Test Kit(CDV+CAV2+BB)
4 Multiplex Kits	Feline Respiratory Multiplex Test Kit (FCV+FHV+MF+CF) (No internal control)
	Feline Respiratory Multiplex Test Kit (FCV+FHV+MF+CF)
	Feline Respiratory Multiplex Test Kit (FCV+FHV+MF/CF+BB)
	Canine Respiratory Multiplex Test Kit (CHV+CDV+CAV-1+BB) (No internal control)
	Canine Respiratory Multiplex Test Kit (CHV+CDV+CAV-1+BB)