



Nous 30V

Automatic Nucleic Acid Detection Analyzer for Veterinary Diagnostics

✔ 1 minute hands-on time

✔ 40 mins to result

✔ Up to 8 targets per run

✔ Anti-contamination design

✔ 40+ tests in our menu



Overview

Nous 30V is PawNovo's total solution for point-of-care testing (POCT) molecular diagnostics in pet hospitals and clinics. The analyzer combines magnetic bead-based nucleic acid extraction and quantitative fluorescence polymerase chain reaction (qPCR) technologies to provide rapid results. The nucleic acid extraction, washing, and amplification processes are carried out in a closed system, ensuring isolation from the external environment. Prefilled extraction reagents and lyophilized PCR mix allow room temperature transportation and storage. With minimal manual involvement and a fully automatic process from samples to results in as quick as 40 minutes, it considerably reduces the turnaround time. Compact and flexible, Nous 30V is ideal for your POCT solutions.

Benefits

- Fast and intelligent**

The cartridge is prefilled with extraction reagents and magnetic beads. No manual preparation is required. Hands-on time is reduced to not more than one minute. Add samples, set up the system, and just wait for results.

- Easy to use**

The compact and integrated instrument occupies a space of just 0.04 m³.

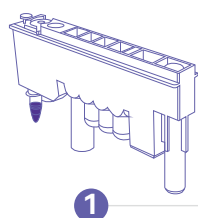
- Comprehensive**

There are over 40 multiplex and singleplex tests for cats and dogs in our menu.

- Stable and reliable**

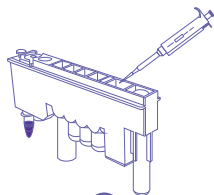
Each cartridge comes with an internal control to detect if the sample is collected correctly. The sample and reagents are mixed by a rotating magnet sleeve, and sealed off with mineral oil. The extracted nucleic acid is amplified in an airtight tube. An alcohol-free formula, UV irradiation, membrane filtration and an aerosol-eliminating spray are used to further minimize contamination.

Workflow



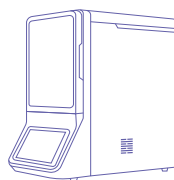
1

Ready-to-use reagents
40s



2

Samples
5s



3

Instrument settings
15s



4

Automation & analysis
40 mins

Assay Menu

Category	Panel	Target
Respiratory Disease	Feline Respiratory Panel-5 Plex	Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); <i>Chlamydia felis</i> , <i>Mycoplasma felis</i> ; <i>Bordetella bronchiseptica</i> (Bb); Internal control
	Feline Respiratory Panel-2 Plex	Feline herpesvirus 1 (FHV-1); feline calicivirus (FCV); Internal control
Eye Disease	Feline Eye Disease Panel-3 Plex	Feline herpesvirus 1 (FHV-1); feline calicivirus (FCV); <i>Chlamydia felis</i> , Internal control
Stomatitis	Feline Stomatitis Panel-4 Plex	Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Feline leukemia virus (FeLV), Feline immunodeficiency virus (FIV)
Feline Multiplex Panel	Feline Diarrhea Panel-6 Plex	Feline parvovirus (FPV); Feline coronavirus (FCoV); <i>Giardia spp.</i> (<i>G. lamblia</i> ; <i>G. duodenalis</i> ; <i>G. intestinalis</i>); <i>Tritrichomonas foetus</i> ; <i>Cryptosporidium spp.</i> (<i>C. parvum</i> ; <i>C. felis</i> ; <i>C. canis</i> ; <i>C. mortiferum</i>); <i>Pentatrichomonas hominis</i> ; Internal control
	Feline Diarrhea Panel-2 Plex	Feline panleukopenia virus (FPV); Feline coronavirus (FCoV); Internal control
Anemia	Feline Anemia Panel-4 Plex	Feline leukemia virus (FeLV); Feline immunodeficiency virus (FIV); <i>Bartonella henselae</i> ; <i>Mycoplasma haemominutum</i>

Category		Panel	Target
Feline Multiplex Panel	Medical Examination	Feline Medical Examination Panel-3 Plex	Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Feline panleukopenia virus (FPV); Internal control
	Genetic disorder	Feline Hypertrophic Cardiomyopathy (HCM) Panel	MyBPC3-A31P(Mutant/Wild Type); MyBPC3-R820W(Mutant/Wild Type); ALMS1(Mutant/Wild Type)
		Feline Polycystic Kidney Disease (PKD) Panel	PKD1(Mutant/Wild Type)
Canine Multiplex Panel	Respiratory Disease	Canine Respiratory Panel-6 Plex	Canine distemper virus (CDV), Canine adenovirus (CAv); Canine parainfluenza virus (CPiV); <i>Bordetella bronchiseptica</i> ; <i>Canine influenza virus</i> ; <i>Mycoplasma spp.</i> ; (<i>Mycoplasma canis</i> ; <i>Mycoplasma edwardii</i> ; <i>Mycoplasma equigenitalium</i>); Internal control
	Digestive Disease	Canine Diarrhea Panel-7 Plex	Canine parvovirus (CPV); Canine coronavirus (CCoV); Canine distemper virus (CDV); Canine rotavirus (CRV); <i>Giardia spp.</i> (<i>G. lamblia</i> ; <i>G. duodenalis</i> ; <i>G. intestinalis</i>); <i>Cryptosporidium</i> , <i>Trichomonas foetus (TF)</i> ; Internal control
		Canine Diarrhea Panel-2 Plex	Canine parvovirus (CPV); Canine coronavirus (CCoV); Internal control
	Medical Examination	Canine Medical Examination Panel-2 Plex	Canine parvovirus (CPV); Canine distemper virus (CDV); Internal control
	Anemia	Canine Anemia Panel-6 Plex	<i>Babesia spp.</i> (<i>B. gibsoni</i> ; <i>B. canis canis</i> ; <i>B. canis vogeli</i> ; <i>B. canis rossii</i>); <i>Anaplasma spp.</i> (<i>A. phagocytophilum</i> ; <i>A. Platys</i>); <i>Canine hemotropic mycoplasma</i> ; <i>Ehrlichia spp.</i> (<i>E. canis</i> ; <i>E. muris</i> ; <i>E. minasensis</i> ; <i>E. chaffeensis</i> ; <i>E. ruminantium</i> ; <i>E. ovina</i> ; <i>E. ewingii</i>); <i>Hepatozoon spp.</i> (<i>H. americanum</i> ; <i>H. canis</i>); <i>Borrelia burgdorferi</i> ; Internal control
	Parasite	Canine Blood Parasite Panel-4 Plex	<i>Dirofilaria immitis</i> ; <i>Ehrlichia spp.</i> (<i>E. canis</i> ; <i>E. muris</i> ; <i>E. minasensis</i> ; <i>E. chaffeensis</i> ; <i>E. ruminantium</i> ; <i>E. ovina</i> ; <i>E. ewingii</i>); <i>Anaplasma spp.</i> (<i>A. phagocytophilum</i> ; <i>A. Platys</i>); <i>Borrelia burgdorferi</i>
		Canine & Feline Parasite Panel-2 Plex	<i>Giardia spp.</i> (<i>G. lamblia</i> ; <i>G. duodenalis</i> ; <i>G. intestinalis</i>); <i>Trichomonas foetus</i> ; Internal control
Feline Singleplex Panel	Feline Panleukopenia Virus Panel	Feline panleukopenia virus (FPV); Internal control	
	Feline Coronavirus Panel	Feline coronavirus (FCoV); Internal control	
	Feline Herpesvirus 1 Panel	Feline herpesvirus 1 (FHV-1); Internal control	
	Feline Calicivirus Panel	Feline calicivirus (FCV); Internal control	
	<i>Mycoplasma felis</i> Panel	<i>Mycoplasma felis</i> ; Internal control	
	<i>Chlamydia felis</i> Panel	<i>Chlamydia felis</i> ; Internal control	
	Feline Leukemia Virus Panel	Feline leukemia virus (FeLV); Internal control	
Feline Immunodeficiency Virus Panel	Feline immunodeficiency virus (FIV); Internal control		
Canine Singleplex Panel	Canine Distemper Virus Panel	Canine distemper virus (CDV); Internal control	
	Canine Parvovirus Panel	Canine parvovirus (CPV); Internal control	
	Canine Coronavirus Panel	Canine coronavirus (CCoV); Internal control	
	Canine Adenovirus 1 Panel	Canine adenovirus type 1 (CAv-1); Internal control	
	Canine Adenovirus 2 Panel	Canine adenovirus type 2 (CAv-2); Internal control	
	Canine Parainfluenza Virus Panel	Canine parainfluenza virus (CPiV) ; Internal control	
	<i>Ehrlichia canis</i> Panel	<i>Ehrlichia spp.</i> (<i>E. canis</i> ; <i>E. muris</i> ; <i>E. minasensis</i> ; <i>E. chaffeensis</i> ; <i>E. ruminantium</i> ; <i>E. ovina</i> ; <i>E. ewingii</i>); Internal control	
	<i>Babesia</i> Typing Panel	<i>Babesia spp.</i> (<i>B. gibsoni</i> ; <i>B. canis canis</i> ; <i>B. canis vogeli</i> ; <i>B. canis rossii</i>); <i>Babesia gibsoni</i> ; Internal control	
Feline & Canine Singleplex Panel	<i>Bordetella bronchiseptica</i> Panel	<i>Bordetella bronchiseptica (Bb)</i> ; Internal control	
	<i>Toxoplasma gondii</i> Panel	<i>Toxoplasma gondii</i> ; Internal control	
	<i>Leptospira</i> Panel	<i>Leptospira spp.</i> (<i>L. kmetyi</i> ; <i>L. borgpetersenii</i> ; <i>L. tipperaryensis</i> ; <i>L. noguchii</i> ; <i>L. interrogans</i> ; <i>L. weilii</i> ; <i>L. mayottensis</i> ; <i>L. santarosai</i> ; <i>L. kirschneri</i> ; <i>L. sp.</i>); Internal control	
	<i>Giardia</i> Panel	<i>Giardia spp.</i> (<i>G. lamblia</i> ; <i>G. duodenalis</i> ; <i>G. intestinalis</i>); Internal control	
	<i>Trichomonas foetus</i> Panel	<i>Trichomonas foetus</i> ; Internal control	
	<i>Cryptosporidium</i> Panel	<i>Cryptosporidium spp.</i> (<i>C. parvum</i> ; <i>C. felis</i> ; <i>C. canis</i> ; <i>C. mortiferum</i>); Internal control	
	<i>Dirofilaria immitis</i> Panel	<i>Dirofilaria immitis</i> ; Internal control	
	Feline Zoonosis Panel-2 Plex	<i>Toxoplasma gondii</i> ; <i>Bartonella henselae</i> ; Internal control	
Zoonosis	Canine Zoonosis Panel-2 Plex	<i>Toxoplasma gondii</i> ; <i>Leptospira spp.</i> (<i>L. kmetyi</i> ; <i>L. borgpetersenii</i> ; <i>L. tipperaryensis</i> ; <i>L. noguchii</i> ; <i>L. interrogans</i> ; <i>L. weilii</i> ; <i>L. mayottensis</i> ; <i>L. santarosai</i> ; <i>L. kirschneri</i> ; <i>L. sp.</i>); Internal control	
	Feline & Canine Zoonosis Panel-6 Plex	<i>Toxoplasma gondii</i> ; <i>Leptospira spp.</i> (<i>L. kmetyi</i> ; <i>L. borgpetersenii</i> ; <i>L. tipperaryensis</i> ; <i>L. noguchii</i> ; <i>L. interrogans</i> ; <i>L. weilii</i> ; <i>L. mayottensis</i> ; <i>L. santarosai</i> ; <i>L. kirschneri</i> ; <i>L. sp.</i>); <i>Bartonella henselae</i> ; <i>Dirofilaria immitis</i> ; <i>Babesia spp.</i> (<i>B. gibsoni</i> ; <i>B. canis canis</i> ; <i>B. canis vogeli</i> ; <i>B. canis rossii</i>); <i>Rickettsia felis</i> ; Internal control	

Specifications

Name	Specifications
Sample volume	50 μ L–600 μ L
Time to result	30–40 minutes
Sample type	Oropharyngeal swab, nasopharyngeal swab, eye swab, anal swab, pleural effusion, ascites, feces, blood, serum, urine, sputum, tissue grinder-treated sample, etc.
Cartridge	2 cartridges per run
Panel	Up to 8 targets per run
Reagent preservation	Freeze-dried reagents, transported and stored at room temperature
Method	Magnetic bead-based nucleic acid extraction and multiplex qPCR
Temperature accuracy	\pm 0.5 $^{\circ}$ C
Weight	16 kg
Fluorescence channel	FAM, HEX, ROX, Cy5

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