



## Nous 30V

# Fully Automatic Molecular Diagnostic System for Veterinary Diagnostics

✔ 2 mins hands-on time

✔ 30 mins automation

✔ 8 panels per run

✔ Anti-contamination design

✔ 50+ panels



## Overview

Nous 30V is PawNovo's one-stop 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. Unique cartridge design ensures isolation from the surroundings. With minimal manual involvement and a fully automatic process from samples to results in as quick as 30 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 2 minutes. Add samples, manage settings, and just wait for results.

- Easy to use**

The compact, integrated and plain analyzer occupies only 0.04 m<sup>3</sup>.

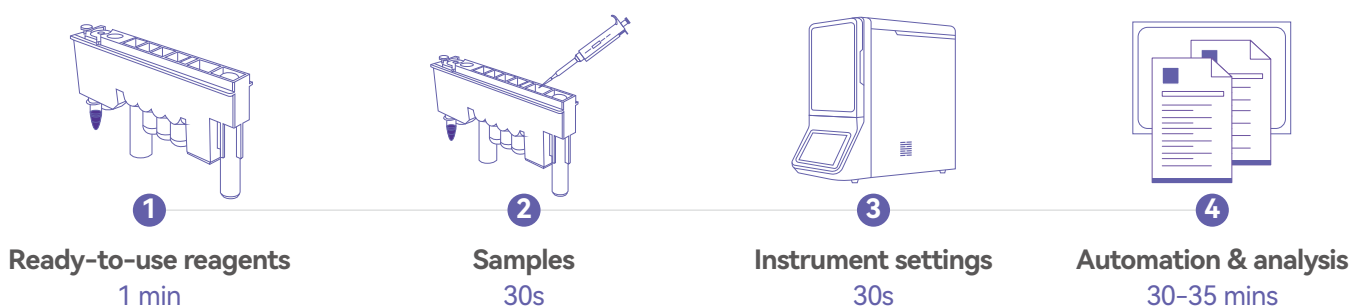
- Comprehensive**

Up to 54 panels for cats and dogs are available, including multiplex and singleplex tests.

- Stable and reliable**

The cartridge comes with an internal control to ensure reliable sample loading. The system integrates fully enclosed amplification tubes, stirring by rotating magnetic sleeves, UV light irradiation, membrane filtration and aerosol cleaner. In product design, mineral seal oil and alcohol-free formula prevent sample cross-contamination and PCR product aerosol diffusion.

## Workflow



## Assay Menu

Category	Panel	Target
Feline Multiplex Panel	Respiratory Disease	Nous Feline Respiratory Panel-5 Plex <i>Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Chlamydia felis, Mycoplasma felis; Bordetella bronchiseptica (Bb); Internal control</i>
		Nous Feline Respiratory Panel-4 Plex <i>Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Chlamydia felis; Mycoplasma felis; Internal control</i>
		Nous Feline Respiratory Panel-2 Plex <i>Feline herpesvirus 1 (FHV-1); feline calicivirus (FCV); Internal control</i>
		Nous Feline Fungal Respiratory Panel-2 Plex <i>Cryptococcus spp. (C. neoformans; C. gattii), Aspergillus spp. (A. fumigatus; A. lentulus; A. fischeri; A. thermomutatus; A. felis; A. udagawae; A. wyomingensis; A. niger; A. flavus); Internal control</i>
	Eye Disease	Nous Feline Eye Disease Panel-3 Plex <i>Feline herpesvirus 1 (FHV-1); feline calicivirus (FCV); Chlamydia felis, Internal control</i>
	Stomatitis	Nous Feline Stomatitis Panel-4 Plex <i>Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Feline leukemia virus (FeLV), Feline immunodeficiency virus (FIV); Internal control</i>
	Digestive Disease	Nous Feline Diarrhea Panel-6 Plex <i>Feline parvovirus (FPV); Feline coronavirus (FCoV); Giardia spp. (G. lamblia; G. duodenalis; G. intestinalis); Tritrichomonas foetus; Cryptosporidium spp. (C. parvum; C. felis; C. canis; C. mortiferum); Pentatrichomonas hominis; Internal control</i>
		Nous Feline Diarrhea Panel-2 Plex <i>Feline panleukopenia virus (FPV); Feline coronavirus (FCoV); Internal control</i>
	Anemia	Nous Feline Anemia Panel-4 Plex <i>Feline leukemia virus (FeLV); Feline immunodeficiency virus (FIV); Bartonella henselae; Feline haemoplasma; Internal control</i>
		Nous Feline Anemia Panel-2 Plex <i>Feline leukemia virus (FeLV); Feline immunodeficiency virus (FIV); Internal control</i>

Category		Panel	Target
Feline Multiplex Panel	Medical Examination	Nous Feline Medical Examination Panel-3 Plex	Feline herpesvirus 1 (FHV-1); Feline calicivirus (FCV); Feline panleukopenia virus (FPV); Internal control
	Genetic disorder	Nous Feline Hypertrophic Cardiomyopathy (HCM) Panel	MyBPC3-A31P; MyBPC3-R820W; ALMS1
		Nous Feline Polycystic Kidney Disease (PKD) Panel	PKD1
Canine Multiplex Panel	Respiratory Disease	Nous 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
		Nous Canine Respiratory Panel-4 Plex	Canine distemper virus (CDV), Canine adenovirus (CAv); Canine parainfluenza virus (CPIV); <i>Bordetella bronchiseptica</i> ; Internal control
	Digestive Disease	Nous 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
		Nous Canine Diarrhea Panel-2 Plex	Canine parvovirus (CPV); Canine coronavirus (CCoV); Internal control
	Medical Examination	Nous Canine Medical Examination Panel-2 Plex	Canine parvovirus (CPV); Canine distemper virus (CDV); Internal control
	Anemia	Nous 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>Mycoplasma haemocanis</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	Nous 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> ; Internal control
		Nous 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	Nous Feline Parvovirus (Feline Distemper) Panel	Feline panleukopenia virus (FPV); Internal control	
	Nous Feline Coronavirus Panel	Feline coronavirus (FCoV); Internal control	
	Nous Feline Herpesvirus 1 Panel	Feline herpesvirus 1 (FHV-1); Internal control	
	Nous Feline Calicivirus Panel	Feline calicivirus (FCV); Internal control	
	Nous <i>Mycoplasma felis</i> Panel	<i>Mycoplasma felis</i> ; Internal control	
	Nous <i>Chlamydia felis</i> Panel	<i>Chlamydia felis</i> ; Internal control	
	Nous Feline Leukemia Virus Panel	Feline leukemia virus (FeLV); Internal control	
	Nous Feline Immunodeficiency Virus Panel	Feline immunodeficiency virus (FIV); Internal control	
	Nous Feline & Canine Parvovirus Typing Panel	Feline panleukopenia virus (FPV); Canine parvovirus (CPV); Internal control	
	Nous Feline <i>Haemoplasma</i>	<i>Candidatus Mycoplasma haemominutum (CMhm)</i> ; <i>Candidatus Mycoplasma turicensis (CMT)</i> ; <i>Mycoplasma haemofelis (Mhf)</i> ; Internal control	
	Nous Cat Scratch Disease ( <i>Bartonella Henselae</i> ) Panel	<i>Bartonella henselae</i> ; Internal control	
Canine Singleplex Panel	Nous Canine Distemper Virus Panel	Canine distemper virus (CDV); Internal control	
	Nous Canine Parvovirus Panel	Canine parvovirus (CPV); Internal control	
	Nous Canine Coronavirus Panel	Canine coronavirus (CCoV); Internal control	
	Nous Canine Adenovirus 1 Panel	Canine adenovirus type 1 (CAv-1); Internal control	
	Nous Canine Adenovirus 2 Panel	Canine adenovirus type 2 (CAv-2); Internal control	
	Nous Canine Parainfluenza Virus Panel	Canine parainfluenza virus (CPIV) (double detection sequences); Internal control	
	Nous Canine Rotavirus Panel	Canine rotavirus (CRV); Internal control	
	Nous Lyme Disease ( <i>Borrelia burgdorferi</i> ) Panel	<i>Borrelia burgdorferi</i> ; Internal control	
	Nous <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	
	Nous <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	Nous <i>Bordetella bronchiseptica</i> Panel	<i>Bordetella bronchiseptica</i> (Bb); Internal control	
	Nous <i>Toxoplasma gondii</i> Panel	<i>Toxoplasma gondii</i> ; Internal control	
	Nous <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	
	Nous <i>Giardia</i> Panel	<i>Giardia spp.</i> ( <i>G. lamblia</i> ; <i>G. duodenalis</i> ; <i>G. intestinalis</i> ); Internal control	
	Nous <i>Trichomonas foetus</i> Panel	<i>Trichomonas foetus</i> ; Internal control	
	Nous <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	
	Nous <i>Dirofilaria immitis</i> Panel	<i>Dirofilaria immitis</i> ; Internal control	
Zoonosis	Nous Feline Zoonosis Panel-2 Plex	<i>Toxoplasma gondii</i> ; <i>Bartonella henselae</i> ; Internal control	
	Nous 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	
	Nous 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 $\mu$ L–600 $\mu$ L
Turnaround time	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 panels 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	18 kg
Fluorescence channel	FAM, HEX, ROX, Cy5

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