

# Tests for Diagnosing Canine Infectious Respiratory Disease



Canine Infectious Respiratory Disease involves several bacterial and viral pathogens and continues to present a diagnostic challenge for both companion and shelter medicine practices. The risk of infection with this disease complex has increased with the emergence of newly discovered or implicated respiratory pathogens such as the Canine Influenza strain H3N2 and *Streptococcus equi* subspecies *zooepidemicus*.

Co-infection with two or more pathogens is not uncommon and the Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL) offers veterinarians a variety of tests to assist in identifying which pathogens are involved.

TVMDL offers the following tests:

## Canine Respiratory Disease Panel qPCR

This test detects pathogens commonly attributed to respiratory disease: *Bordetella bronchiseptica*, Canine Adenovirus-2, Canine Distemper virus, Canine Herpesvirus-1, Canine Influenza, Canine Respiratory Coronavirus and Canine Parainfluenza virus by qPCR.

Cost: \$60.00 with results in 1-3 business days; the test is performed Tuesday-Friday in College Station.

## Canine Distemper qPCR

This test detects Canine Distemper virus.

Cost: \$30.00 with results in 1-4 business days; the test is performed Tuesday-Friday in College Station.

## Influenza A Matrix qPCR

This test detects Influenza A matrix gene.

Cost: \$30.00 with results in 1-4 business days; the test is performed Tuesday-Friday in College Station and Monday-Friday in Amarillo.

## Aerobic & Anaerobic Culture and Sensitivity-Companion

This test cultures for the isolation and identification of a wide variety of bacterial pathogens in companion animals.

Cost: \$23.00 with results in 2-7 business days; the test is performed Monday-Saturday in Amarillo and College Station.

## Cytology and Fluid Analysis

Diagnostic samples utilized for cytologic evaluation of respiratory disease include: transtracheal wash and nasal flush fluid, bronchoalveolar lavage fluid and nasal discharge. TVMDL offers advanced concentrating and staining techniques to allow for thorough cytologic examination of fluid samples. In addition, fine needle aspiration of any mass lesions may provide valuable diagnostic information. Cytologic evaluation is most rewarding when there is a clinical suspicion for fungal infections, bacterial infections or neoplasia.

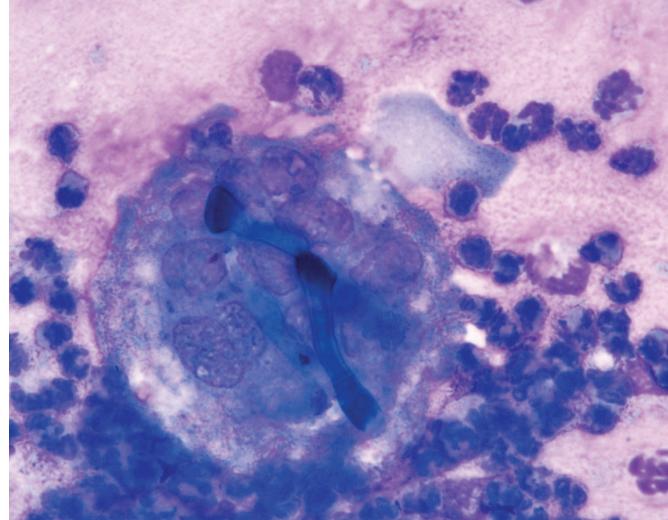
Cost: \$35.00 with results in 1-2 business days; the test is performed Monday-Friday in Amarillo and College Station.

## Canine Distemper Virus FA

This test detects Distemper virus antigen.

Cost: \$15.00 with results in 1-2 business days; the test is performed Monday-Friday in College Station.

For more information on TVMDL's diagnostic services, visit [tvmdl.tamu.edu](http://tvmdl.tamu.edu). Contact the laboratory for questions on sample submission or test selection.



Many neutrophils and a multinucleated giant cell with phagocytized hyphal structures.