



Real-time PCR Panel - Small Animal Faecal Pathogens

Veterinary Pathology Diagnostic Services

In collaboration with Prof Jan Slapeta, Prof Jacqui Norris, RCVS (Veterinary Microbiology) and AusDiagnostics Pty. Ltd. we are pleased to offer the molecular diagnostic Small Animal Faecal Pathogens panel.

Small Animal Faecal Pathogens

Diarrhoea is an extremely common problem in both cats and dogs. Mild, transient diarrhoea is rarely a cause for concern but severe or chronic diarrhoea can be damaging to a pet's health. Faecal tests for gastrointestinal pathogens (bacteria, viruses, and parasites) should be considered whenever an animal has chronic or severe diarrhoea. In addition, some intestinal parasites such as *Giardia duodenalis* and *Cryptosporidium parvum* can be zoonotic and pose a significant health threat to people.

The Faecal Pathogen Panel uses the principle of Multiplexed Tandem PCR employing two sequential PCR steps, adding to both sensitivity and specificity.



Controls for PCR inhibition and DNA quality are included for each sample. Samples that fail QC are repeated free of charge and unusual results are confirmed by follow-up testing.

All work is performed at **The University of Sydney**. Turnaround time is 2-3 business days following receipt of the sample.

Required sample: 3-5 g of fresh faeces submitted in a sterile container. The panel includes a complementary faecal floatation test.

*Test prices are available upon request.

Please contact VPDS if you have further questions before submitting your samples.

Target	LOD (copies/ 10 µL	Gene - Inclusivity
<i>Campylobacter jejuni</i>	19-37	<i>Campylobacter jejuni</i> **
<i>Campylobacter coli</i>	35-70	<i>Campylobacter coli</i> **
<i>Salmonella</i>	22-35	<i>Salmonella</i> spp
<i>C. perfringens</i>	63-79	<i>Clostridium perfringens</i> cpa gene
netF		<i>Clostridium perfringens</i> netF **
Enterotoxin e	16-80	<i>Clostridium perfringens</i> enterotoxin cpe **
<i>Giardia</i> spp.	14-70	Assemblages A, B, C, D, E, F
<i>Tritrichomonas foetus</i>	6-65	Bovine and feline genotypes
<i>Cryptosporidium canis</i>		<i>Cryptosporidium canis</i> **
<i>Cryptosporidium felis</i>		<i>Cryptosporidium felis</i> **
<i>Toxoplasma gondii</i>	23	Lineages I, II, III
Canine Distemper Virus	25	CDV from ferrets, mink, seal, macacque
Parvovirus (canine and feline)	74	Canine parvovirus subtypes 2a, 2b, 2c Feline panleukopaenia virus
Canine Coronavirus	61-76	Canine Coronavirus
Feline Coronavirus	5-25	Feline Coronavirus
<i>Neospora caninum</i>	20-100	<i>Neospora caninum</i>

**New test version to be released Mid October 2022. *Campylobacter* spp upgraded to detection of *C. fetus* and *C. canis*; *Clostridium perfringens* upgraded to detection of *C. perfringens* cpa gene and *C. perfringens* netF; *Cryptosporidium* spp upgraded to detection of *C. canis* and *C. felis*.

For more information

Maira Meggiolaro, Molecular Diagnostics Technical Officer | **Ignacia Meza**, Laboratory Manager

Sydney School of Veterinary Science | Faculty of Science

E vpds.molecular@sydney.edu.au | E vetsci.vpds@sydney.edu.au

sydney.edu.au/vetscience/vpds/

VPDS Accessions T +61 2 9351 7456