

| Pathogen Target | Pathogen Abbreviation | Assay Code | Methodology | Specimen source | Sample Required | Minimum Sample Volume required |
|---|-----------------------|------------|-------------|-----------------|-----------------|---------------------------------------|
| Porcine Hepatitis E virus | HEV | P-001-1 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| | | P-001-2 | ELISA | | Red Top | 4 mL whole blood or 0.5 mL serum |
| Toxoplasma | Toxo | P-002 | ELISA | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |
| Porcine Circovirus Type 1 | PCV1 | P-005 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | | | | | Tissue | 5 cm x 5 cm section |
| Porcine Circovirus Type 2 | PCV2 | P-006-1 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | | | | | Tissue | 5 cm x 5 cm section |
| | | P-006-3 | ELISA | | Red Top | 4 mL whole blood or 0.5 mL serum |
| Porcine Cytomegalovirus | PCMV | P-007 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | | | | | Tissue | 5 cm x 5 cm section |
| Porcine Encephalomyocarditis Virus | EMCV | P-008-1 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| | | P-008-2 | VNT | | Red Top | 4 mL whole blood or 0.5 mL serum |
| Porcine Enterovirus B | PEVB | P-009 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| Porcine Lymphotropic Herpesvirus Type 2 | PLHV2 | P-011 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | | | PCR | | Tissue | 5 cm x 5 cm section |
| Porcine Parvovirus | PPV | P-012 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | | | PCR | | Tissue | 5 cm x 5 cm section |
| | | | ELISA | | Red Top | 4 mL whole blood or 0.5 mL serum |
| Porcine Teschovirus | PTV | P-013 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| Reovirus | ReoV | P-014 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| Rotavirus | RotaV | P-015-0 | ELISA | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |
| Rotavirus A | RotVA | P-015-1 | RT-PCR | Porcine | Faeces/Tissue | 5 cm x 5 cm section |
| Rotavirus B | RotVB | P-015-2 | RT-PCR | | Faeces/Tissue | 5 cm x 5 cm section |
| Rotavirus C | RotVC | P-015-3 | RT-PCR | | Faeces/Tissue | 5 cm x 5 cm section |
| Porcine Adenovirus | PAd | P-016 | PCR | Porcine | Purple Top | 4 mL whole blood or 0.5 mL buffy coat |
| Bovine Virus Diarrhea | BVD | P-017 | ELISA | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |

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| Campylobacter | Camp Sp. | P-018-1 | Culture | Porcine | Faeces | 5 cm x 5 cm section or swab |
| | Camp | P-018-2 | Culture | Porcine | Cell product | 5 mL |
| Clostridium difficile | C.diff | P-019 | Culture | Porcine | Faeces | 5 cm x 5 cm section |
| Cryptosporidium parvum | Crypto | P-020 | ELISA | Porcine | Faeces | 5 cm x 5 cm section |
| Culture for anaerobic & aerobic bacteria | Cult | P-021 | Culture | Porcine | Cell product | 5 mL |
| Escherichia coli K88 | E.coli K88 | P-022 | Culture | Porcine | Faeces | 5 cm x 5 cm section |
| Isospora Suis (Coccidiosis) | Coccidia | P-023 | Faecal egg count | Porcine | Faeces | 5 cm x 5 cm section |
| Leptospira (hardjo, pomona, tarassovi) | Lepto | P-024 | MAT | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |
| Methicillin-resistant Staphylococcus aureus | MRSA | P-025 | Culture | Porcine | Skin swab (ear) | 1 swab |
| Mycoplasma | Myco | P-026 | PCR | Porcine | Cell product | 5 mL |
| Mycoplasma Hyopneumoniae | Myco. H | P-027 | ELISA | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |
| Salmonella | Sal | P-028 | Culture | Porcine | Faeces | 5 cm x 5 cm section |
| Swine Influenza | Influenza | P-029 | ELISA | Porcine | Red Top | 4 mL whole blood or 0.5 mL serum |
| Yersinia enterocolitica | Yer | P-030 | Culture | Porcine | Faeces | 5 cm x 5 cm section |
| Porcine Endogenous Retrovirus Infectivity Study (co-culture porcine 1° tissue with target human cell line) | PERVInf | P-031-1 | Co-Culture | Porcine | Islets | 10,000 IEQ |
| | | P-031-2 | | | Yellow Top | 9 mL whole blood or 1 mL PBMCs |
| Porcine Endogenous Retrovirus A | PERVADNA | P-032-1 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | PERVARNA | P-032-2 | RT-PCR | | | |
| Porcine Endogenous Retrovirus B | PERVBDNA | P-033-1 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | PERVBRNA | P-033-2 | RT-PCR | | | |
| Porcine Endogenous Retrovirus C | PERVCDNA | P-034-1 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL buffy coat |
| | PERVCRNA | P-034-2 | RT-PCR | | | |
| Porcine Endogenous Retrovirus AC proviral DNA | PERVACDNA | P-035 | PCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL PBMCs |
| Porcine Endogenous Retrovirus RNA expression | PERVexp | P-036 | qPCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL PBMCs |

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| Porcine Endogenous Retrovirus <i>pol</i> provirus copy number | PERV _{cn} | P-037 | qPCR | Porcine | Yellow Top | 9 mL whole blood or 1 mL PBMCs |
| Porcine Endogenous Retrovirus RT activity | PERT _{rt} | P-038 | Immunoassay | Porcine | Purple Top | 4 mL whole blood or 0.5 mL plasma |
| Porcine Endogenous Retrovirus | PERV | H-001-1 | PCR | Human | Yellow Top | 9 mL whole blood or 1 mL PBMCs |
| | | H-001-2 | RT-PCR | | Yellow Top | 9 mL whole blood or 1 mL PBMCs |
| | | H-001-3 | RT-PCR | | Purple Top | 4 mL whole blood or 0.5 mL plasma |
| | | H-001-4 | ELISA | | Red Top | 4 mL whole blood or 0.5 mL serum |
| Galactose-Alpha-1,3-Galactose Antibodies | Alpha-gal | H-004 | Hemagglutination | Human | Red Top | 4 mL whole blood or 0.5 mL serum |

| Abbreviations | |
|---------------|---|
| ELISA | Enzyme Linked Immunosorbent Assay |
| LAT | Latex Agglutination Test |
| MAT | Modified Agglutination Test |
| PCR | Polymerase Chain Reaction (conventional or real-time) |
| qPCR | Quantitative PCR |
| RT-PCR | Reverse Transcriptase PCR |
| VNT | Virus Neutralisation Test |

| Sample Collection Types | |
|-------------------------|---|
| Purple Top | Ethylenediaminetetraacetic acid (EDTA) containing blood collection tube |
| Yellow Top | Acid citrate dextrose (ACD) or Citrate phosphate dextrose adenine (CPDA) containing blood collection tube |
| Red Top | Blood collection tube containing no anticoagulant |
| Tissue | Should be appropriate to pathogen tropism. We can process almost any organ |
| Cell Product | Samples late in production process and as close to implantation as possible |