

Target	Target Abbreviation	Assay Code	Methodology	Sample Type Required	Minimum Sample Amount Required
Lentivirus (HIV-1 p24)	p24	P-000	ELISA	Cell Culture	5 mL cell culture
Porcine Hepatitis E virus	HEV	P-001-1	RT-PCR	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	Red Top	4 mL whole blood or 0.5 mL serum
Porcine Circovirus Type 1	PCV1	P-005	PCR	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	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	Yellow Top	9 mL whole blood or 1 mL buffy coat
				Tissue	5 cm x 5 cm section
Encephalomyocarditis Virus	EMCV	P-008-1	RT-PCR	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	Faeces/Tissue	5 cm x 5 cm section
Porcine Lymphotropic Herpesvirus Type 2	PLHV2	P-011	PCR	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	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	Faeces/Tissue	5 cm x 5 cm section
Reovirus	ReoV	P-014	RT-PCR	Faeces/Tissue	5 cm x 5 cm section
Rotavirus	RotaV	P-015-0	ELISA	Red Top	4 mL whole blood or 0.5 mL serum
Rotavirus A	RotVA	P-015-1	RT-PCR	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	Purple Top	4 mL whole blood or 0.5 mL buffy coat

Target	Target Abbreviation	Assay Code	Methodology	Sample Type Required	Minimum Sample Amount Required
Bovine Virus Diarrhoea	BVD	P-017	ELISA	Red Top	4 mL whole blood or 0.5 mL serum
Campylobacter	Camp Sp.	P-018-1	Bacterial Culture	Faeces	5 cm x 5 cm section or swab
	Camp	P-018-2	Bacterial Culture	Cell Culture	5 mL
Clostridium difficile	C.diff	P-019	Bacterial Culture	Faeces	5 cm x 5 cm section
Cryptosporidium parvum	Crypto	P-020	ELISA	Faeces	5 cm x 5 cm section
Culture for anaerobic & aerobic bacteria	Cult	P-021	Bacterial Culture	Cell Culture	5 mL
Escherichia coli K88	E. coli K88	P-022	Bacterial Culture	Faeces	5 cm x 5 cm section
Isospora Suis (Coccidiosis)	Coccidia	P-023	Faecal egg count	Faeces	5 cm x 5 cm section
Leptospira (hardjo, pomona, tarrasovi)	Lepto	P-024	MAT	Red Top	4 mL whole blood or 0.5 mL serum
Methicillin-resistant Staphylococcus aureus	MRSA	P-025	Bacterial Culture	Skin swab (ear)	1 swab
Mycoplasma	Myco	P-026	PCR	Cell Culture	5 mL cell culture
Mycoplasma Hyopneumoniae	Myco. H	P-027	ELISA	Red Top	4 mL whole blood or 0.5 mL serum
Salmonella	Sal	P-028	Bacterial Culture	Faeces	5 cm x 5 cm section
Swine Influenza	Influenza	P-029	ELISA	Red Top	4 mL whole blood or 0.5 mL serum
Yersinia enterocolitica	Yer	P-030	Bacterial Culture	Faeces	5 cm x 5 cm section
Infectious Porcine Endogenous Retrovirus (PERV)	PERVInf	C-001-1	Cell Coculture	Tissue	>1 million cells or equivalent
		C-001-2		Yellow Top	9 mL whole blood or 1 mL PBMCs
Porcine Endogenous Retrovirus A	PERVADNA	P-032-1	PCR	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	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	Yellow Top	9 mL whole blood or 1 mL buffy coat
	PERVCRNA	P-034-2	RT-PCR		
Porcine Endogenous Retrovirus A/C proviral DNA	PERVACDNA	P-035	PCR	Yellow Top	9 mL whole blood or 1 mL PBMCs
Porcine Endogenous Retrovirus RNA expression	PERVexp	P-036	qPCR	Yellow Top	9 mL whole blood or 1 mL PBMCs

Target	Target Abbreviation	Assay Code	Methodology	Sample Type Required	Minimum Sample Amount Required
Porcine Endogenous Retrovirus <i>pol</i> provirus copy number	PERVcn	P-037	qPCR	Yellow Top	9 mL whole blood or 1 mL PBMCs
Retroviruses (RT activity)	PERTrt	P-038	qPERT	Cell-free Media	0.5 mL culture media
				Red or Purple Top	0.5 mL serum or plasma
Porcine Endogenous Retrovirus infection in Human transplant recipients	PERVbcDNA	H-001-1	PCR	Yellow Top	9 mL whole blood or 1 mL PBMCs
	PERVbcRNA	H-001-2	RT-PCR	Yellow Top	9 mL whole blood or 1 mL PBMCs
	PERVpIRNA	H-001-3	RT-PCR	Purple Top	4 mL whole blood or 0.5 mL plasma
	PERVAb	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	Red Top	4 mL whole blood or 0.5 mL serum
Unknown or adventitious viral contaminants	UVC	C-002	Cell Coculture	Tissue	>1 million cells or equivalent

Methodology Descriptions	
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
NT	Virus Neutralisation Test
qPERT	Quantitative Product Enhanced Reverse Transcriptase
PBMC	Peripheral Blood Mononuclear Cells
Cell Coculture	Two chamber cell coculture of primary tissue or viral controls with target indicator cell lines

Sample Type Descriptions	
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	Tissue should be appropriate to pathogen tropism. We can process any organ. For coculture assays fresh or cultured primary tissue is recommended e.g. pancreatic islets, liver hepatocytes, PBMCs
Cell Culture	Cell culture sample taken from any stage of the production process including final cell product