

LIFE SCIENCES

LIFE INSPIRED, QUALITY DRIVEN

QUANTITATIVE PCR (qPCR) SERVICES



SGS

BIOLOGICS

SGS provides a wide range of qPCR testing services to meet your preclinical and clinical requirements. Our scientists have over 20 years' experience in setting the current biopharmaceutical industry standards for the development and validation of qPCR assays for virus detection. All qPCR assays are validated to ICHQ2 guidelines, GMP compliant, and performed on ABI 7900HT systems using TaqMan technology, in accordance with criteria required for maintaining 21CFR part 11 compliance.

CONFORMATORY DETECTION UTILISING QPCR FOR NGS

HUMAN VIRUSES		PORCINE VIRUSES	
<i>Human immunodeficiency virus (HIV-1,HIV2) (Proviral)</i>	<i>Human T-cell lymphotropic virus (HTLV-1, HTLV-2) (Proviral)</i>	<i>Porcine adenovirus</i>	West Nile virus
<i>Human immunodeficiency virus (HIV-1,HIV2) (RNA)</i>	<i>Human T-cell lymphotropic virus (HTLV-1, HTLV-2) (RNA)</i>	<i>Porcine circovirus (Types 1/2/3)</i>	Bornavirus
<i>Human papillomavirus (Types 6,11.16,18, 31, 33, 52 and 58)</i>	<i>Human Herpes simplex virus (Types 1/2)</i>	<i>Porcine parvovirus</i>	Hantaviruses (SEOV/SNV)
<i>Human Hepatitis viruses (A/B/C)</i>	<i>Human herpes Viruses (3/6/7/8)</i>	<i>Porcine lymphotropic herpesvirus (Types 1/2/3)</i>	<i>Equine encephalomyelitis virus (Types EEEV/WEEV/VEEV)</i>
<i>Human cytomegalovirus (hCMV)</i>	<i>Human Simian virus 40& SV40 LTA</i>	<i>Porcine cytomegalovirus</i>	<i>Swine Torque tenovirus</i>
<i>Human Parvovirus B19/4/5 & Erythrovirus V9</i>	<i>Human Adenovirus & Human Adeno Associated Virus</i>	<i>Swinepox virus</i>	<i>Rabies virus</i>
<i>Human polyomavirus (Type BK/JC/WU/KI/ MCPyV/6/7/9/TS PyV</i>	<i>Human Parainfluenza Virus (Types 1/2/3)</i>	<i>Pseudorabies virus</i>	<i>Porcine haemagglutinating encephalomyelitis virus</i>
<i>Epstein-Barr virus</i>	<i>Human Respiratory Syncytial Virus (Types A and B)</i>	<i>Porcine rotavirus (Types A/C)</i>	<i>Transmissible gastroenteritis virus</i>
<i>Human Enterovirus</i>	<i>Varicella-zoster Virus</i>	<i>Porcine Teschovirus</i>	<i>Classical swine fever virus</i>
<i>Human Rhinovirus</i>	Human Bocavirus	<i>Procine Hokovirus/Bocavirus</i>	<i>African Swine Fever virus</i>
<i>Rubella virus (Rubella)</i>	<i>Measles virus & Subacute sclerosing panencephalitis virus</i>	Hepatitis E	<i>Swine vesicular disease virus</i>
<i>Mumps virus</i>	<i>Human Torque tenovirus</i>	<i>Reovirus /Types 1/2/3</i>	<i>Swine encephalomyocarditis virus</i>
<i>Human coronavirus (HCoV) Types 229E, OC43, HKU1, NL63 and SARS-CoV-2</i>	Influenza A/C		

Positive Viral Pathogen detection obtained using NGS testing methods can be verified utilising ICH Q2 validated Real Time Polymerase Chain Reaction (PCR) assays which are available for all Human, Porcine, Bovine, Avian, Duck, Simian, Murine and Bacterial pathogens listed.

BOVINE VIRUSES		AVIAN/DUCK VIRUSES	
<i>Bovine herpes virus (Types 1&4)</i>	<i>Bovine polyomavirus (BPvV)</i>	<i>Duck Adenovirus (DAdV)</i>	<i>Duck circovirus</i>
<i>Bovine parvovirus types 1/2/3</i>	<i>Bovine respiratory syncytial virus</i>	<i>Avian Encephalomyelitis virus</i>	<i>Duck Hepatitis B virus</i>
<i>Bovine parainfluenza virus Type3</i>	<i>Bovine bocavirus</i>	<i>Chicken Parvovirus (ChPV)</i>	<i>Duck hepatitis virus (Type 1)</i>
<i>Bovine Rotavirus (Type A and C)</i>	<i>Bovine Epizootic Hemorrhagic Disease virus</i>	<i>Avian Reovirus</i>	<i>Duck picornavirus</i>
<i>Bovine Hokovirus</i>	<i>Bovine Adenovirus</i>	<i>Avian leukosis virus (Types A/B/C/D/E/J)</i>	<i>Duck virus enteritis</i>
<i>Bovine viral diarrhea virus (Types 1/2/3)</i>	<i>Bovine Adeno Associated Virus</i>	<i>Chicken Anaemia virus</i>	<i>Goose parvovirus</i>
<i>Bovine Enterovirus</i>	<i>Bovine Astrovirus</i>	<i>Avian influenza virus</i>	<i>Infectious bronchitis virus</i>
<i>Bovine Norovirus</i>	<i>Blue tongue virus</i>	<i>Moscovy Duck parvovirus</i>	Vesivirus

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SIMIEN VIRUSES	MURINE/INSECT VIRUSES	BACTERIAL
<i>Simian cytomegalovirus</i>	<i>Minute virus of mice</i>	<i>Mycobacterium</i> species
<i>Rhesus cytomegalovirus</i>	<i>Ecotropic, Polytropic & Xenotropic murine leukaemia virus</i>	Mycoplasma Species
<i>Simian foamy virus</i>	<i>Flock house virus</i>	<i>Chlamydia</i> species
<i>Simian retrovirus</i> (Types 1/2/3/4/5)	<i>Nodamura virus</i>	<i>Treponema pallidum</i>
<i>Squirrel monkey retrovirus</i>	<i>Boolarra virus</i>	<i>Neissera gonorrhoeae</i>
<i>Simian Adenovirus</i>	<i>Pariacoto virus</i>	Leptospiraceae
<i>Simian Immunodeficiency virus</i>	Cache valley virus	
<i>Simian T-cell leukaemia virus types 1 and 2 (STLV-1 and STLV-2)</i>	Sf-Rhabdovirus	

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ABOUT SGS

SGS provides a comprehensive range of biosafety services such as: virology, cell and molecular biology as well as microbiology and electron microscopy. Health Authorities, including the US FDA and the EMA, require companies to undergo safety testing to demonstrate that all cell banks, viral banks, raw materials of animal origin, bulk harvests, and batches of clinical drug are free of bacteria, fungi, mycoplasma, viruses and other potential contaminants.




SGS helps clients by ensuring product safety in satisfying these regulatory requirements through a large range of validated assays and develops new services in the following areas:

- Cell bank and virus seeds characterization per the major compendia, regulatory and ICH guidelines

- Raw material and bulk harvest testing (sterility, mycoplasma, viruses and other potential biological contaminants)
- Final product testing for residual DNA and other process related impurities
- Regulatory and safety consultancy services
- Custom development of assays

SGS's global centre of excellence for cell bank characterization & virus testing is located in the United Kingdom and provides services with ultimate reliability, highest GLP/cGMP quality & scientific expertise. As trailblazers in the development of the biosafety testing industry, our SGS Vitrology team in Glasgow have developed and validated novel nucleic acid technologies, such as real-time PCR, RAPD, Sequencing, Non-radioactive Southern Blotting, Next Generation Sequencing (NGS).

For any of your biologics, we help you comply with the global regulatory guidelines and testing requirements. Our team of experienced scientists have over 20+ years' experience in GMP, FDA, EP, ICH compliant validated assays.

-  Global network
-  Rapid turnaround times
-  Data management and Reporting

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WHEN YOU NEED TO BE SURE

