

# LIFE SCIENCE SERVICES & SITES



POCKET MAP – 2014

**SGS**



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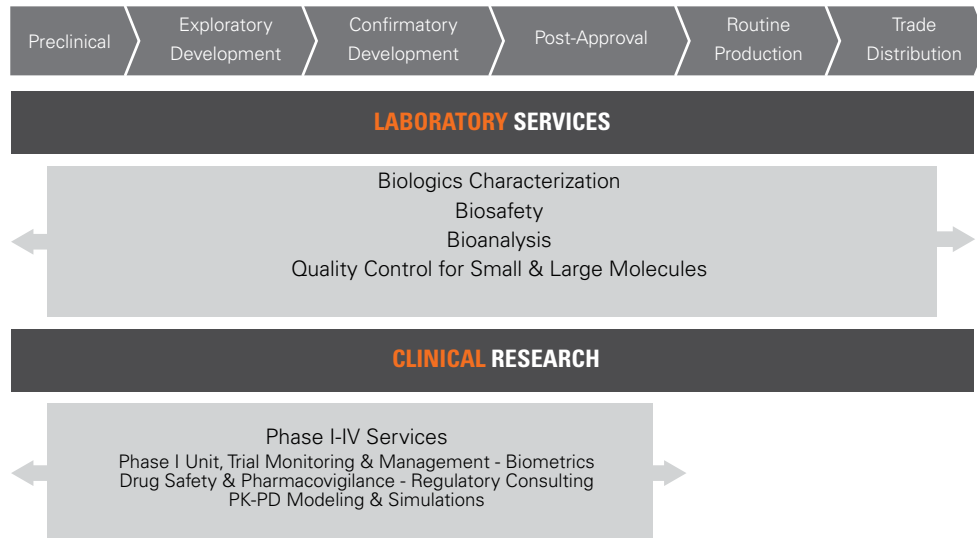
SGS's Life Science Services has over 35 years of experience as a global bio/pharmaceutical contract service organization. We provide integrated solutions from preclinical activities to phase I-IV clinical trials, pharmaceutical development, bioanalytical, protein characterization, biosafety and quality control testing of small and large molecules, raw materials, finished products, containers and utilities. With over 1,600 employees, a state-of-the-art clinical unit and the world's largest wholly owned network of GMP/GLP/GCP compliant laboratories, SGS serves the pharmaceutical, biotechnology and medical device industries across Europe, the Americas and Asia with 29 facilities located in 15 countries.

SGS's mission is to safeguard the quality of medicines by providing professional and independent services thereby creating value for our clients, employees, shareholders and benefits for patients worldwide.



## SERVICES

# GMP, GLP, GCP - FROM MOLECULE TO MARKET



# WORLD MAP OF SGS LIFE SCIENCE SERVICES FACILITIES



## NORTH AMERICA

### CANADA

- Toronto (Mississauga, ON)

### USA

- Chicago (Lincolnshire, IL)
- New York (Fairfield, NJ)
- Philadelphia (West Chester, PA)
- Washington, DC (Germantown, MD)
- Los Angeles (Carson, CA)

## EUROPE

### BELGIUM

- Antwerp
- Brussels (Wavre)
- Brussels (Mechelen)

### CZECH REPUBLIC

- Prague

### FRANCE

- Paris (Clichy)
- Paris (Arcueil)
- Poitiers

### GERMANY

- Berlin
- Frankfurt (Taunusstein)
- Freiburg

### ITALY

- Florence (Livorno)

### POLAND

- Warsaw

### SPAIN

- Madrid

### SWITZERLAND

- Geneva

### UNITED KINGDOM

- London (Thurrock)
- Glasgow
- London (Wokingham)

## ASIA

### CHINA

- Shanghai

### INDIA

- Chennai
- Mumbai (Navi)

### SINGAPORE

- Singapore

### TAIWAN

- Kaohsiung
- Taipei

- NEW Laboratory in 2014
- Laboratory Services
- Clinical Pharmacology Unit
- Clinical Trial Management

CLICK ON A SPECIFIC SITE OR LEGEND TO VIEW SITE PROFILES

## LABORATORY SERVICES

SGS's laboratory team provides complete pharmaceutical development and analytical services with its international, harmonized, and wholly-owned GLP/GMP/GCP bioanalytical, biosafety, characterization and quality control for small and large molecules laboratory network.

### SERVICES

Preclinical

Exploratory  
Development

Confirmatory  
Development

Post-Approval

Routine  
Production

Trade  
Distribution

### LABORATORY SERVICES

Quality Control for Small & Large  
Molecules

Method Development, Optimization & Validation

GMP Analytical Chemistry – Quality Control Batch Release

Microbiological Testing

Extractables & Leachables – Container Testing

Stability Studies (ICH) & Storage

Pre formulation

Utilities Qualification & Monitoring (Gas, Air, Water & Surface)

Facilities / Equipment Qualification and Calibration

Biologics Characterization &  
Biosafety

Biologics Safety Testing – Endotoxin, Virus, Mycoplasma

Virology – Cell Bank and Virus Seeds Characterization

Cell & Molecular Biology – qPCR Assays

Protein, Peptide Analysis & Quantification (PPB)

Product Characterization

Host Cell Impurity Testing & Identification

Cell-Based Assays, Cytotoxicity (ADCC)

Bio  
analysis

Biomarkers – Immunogenicity and Neutralizing Antibody Testing

Bioanalysis – PK/PD Mass Spectrometry – Large & Small Molecules – ADME-<sup>14</sup>C Trials

LABORATORY SERVICES



## BIOLOGICS CHARACTERIZATION AND BIOSAFETY

SGS has unrivaled expertise in glycoprotein analysis, gained from over 30 years experience in peptides, proteins, glycoproteins (including antibodies and biosimilars), oligonucleotides and vaccines. SGS's offering for biopharmaceuticals is complemented by extensive experience in the biosafety testing ensuring drug products are free of contaminants. Our biopharmaceutical services portfolio is available at all stages of development, from GLP discovery to GMP manufacturing.

All analyses are designed to conform with the global regulatory guidelines (FDA/USP/EMA/Ph.Eur./ICH).

SERVICES		Preclinical	Exploratory Development	Confirmatory Development	Post-Approval	Routine Production	Trade Distribution
LABORATORY SERVICES	Biologics Characterization and Biosafety	Method Development, Optimization & Validation					
		Amino Acid Sequencing and Analysis (Edman, MS/MS)					
		Peptide Mapping by MS					
		Disulfide Analysis					
		Glycosylation - Monosaccharides, Sialic Acid, Linkage, Glycan Profile, and Site Analysis					
		Post-Translational Modification Analysis					
		Isoform and Electrophoretic Patterns					
		Extinction Coefficient					
		LC Patterns (SEC, RP, IEX)					
		FTR and Fluorescence to Spectrometric Profile (CD, DSC, NMR)					
		Aggregation Analysis (AUC, SEC-MALS, DLS)					
		Characterization of Process and Product-Related Impurities					
		Stability and Pre/Formulation					
		Biosafety Testing					
		Cell Bank and Virus Seeds Characterization - Electron Microscopy Studies					
		Raw Material and Bulk Harvest Testing (Sterility, Mycoplasma, Viruses)					
		Final Product Testing for Residual DNA and Host Cell Protein					



## LABORATORY CAPABILITIES PER SITE

LABORATORIES	COUNTRY	ANALYTICAL CHEMISTRY	MICRO-BIOLOGY	STABILITY STUDIES	METHOD DEV. & VALIDATION	CONTAINER TESTING	BIOPHARMA TESTING	BIO-SAFETY	BIO-ANALYSIS	PLANT/EQUIP'T QUALIFICATION
Toronto (Mississauga)	Canada	•	•	•	•	•	•	•	–	–
Chicago (Lincolnshire)	USA	•	•	•	•	•	–	–	–	–
New York (Fairfield)	USA	•	•	•	•	•	•	•	–	–
Philadelphia (West Chester)	USA	•	–	–	•	•	•	–	–	–
Los Angeles (Carson)*	USA	–	•	–	•	–	–	–	•	–
Brussels (Wavre)	Belgium	•	•	•	•	•	•	–	•	–
Paris (Clichy)	France	•	•	•	•	•	–	–	–	–
Poitiers	France	–	–	•	•	–	•	–	•	–
Berlin	Germany	•	–	•	•	•	–	–	–	–
Frankfurt (Taunusstein)	Germany	•	•	–	•	•	–	–	–	–
Freiburg	Germany	•	–	–	•	–	•	–	–	–
Geneva	Switzerland	•	–	–	•	–	•	–	•	–
Florence (Livorno)*	Italy	•	•	•	•	–	–	–	–	•
London (Wokingham)	UK	•	–	•	•	•	•	–	–	–
Glasgow	UK	•	•	–	•	–	•	•	–	–
Shanghai	China	•	•	•	•	–	–	–	–	–
Chennai	India	•	•	•	•	•	–	–	–	–
Mumbai (Navi)	India	•	•	•	•	•	–	–	–	–
Singapore	Singapore	•	•	•	•	–	–	–	–	–
Kaohsiung	Taiwan	•	–	–	–	–	–	–	–	–
Taipei	Taiwan	•	•	–	–	–	–	–	–	–





## REGULATORY AND QUALITY MANAGEMENT OVERVIEW

LABORATORIES	COUNTRY	QUALITY MANAGEMENT SYSTEM	ISO STANDARD	US-FDA REGISTERED	US-FDA INSPECTED
Toronto (Mississauga)	Canada	GMP	9001/13485	•	•
Chicago (Lincolnshire)	USA	GMP/GLP	9001	•	•
New York (Fairfield)	USA	GMP	9001	•	•
Philadelphia (West Chester)	USA	GMP	–	•	•
Los Angeles (Carson) *	USA	GMP/GLP	–	•	–
Brussels (Wavre)	Belgium	GMP/GLP/GCP	17025	•	•
Paris (Clichy)	France	GMP	–	•	•
Poitiers	France	GMP/GLP/GCP	–	•	•
Berlin	Germany	GMP	–	•	•
Frankfurt (Taunusstein)	Germany	GMP	17025	•	•
Freiburg	Germany	GMP/GLP	–	•	•
Geneva	Switzerland	GMP/GLP	–	•	•
London (Wokingham)	UK	GMP/GLP	–	•	•
Glasgow	UK	GMP/GLP	–	•	–
Florence (Livorno) *	Italy	GMP	9001	–	–
Shanghai	China	GMP	17025	•	–
Chennai	India	GMP	17025	•	•
Mumbai (Navi)	India	GMP	17025	•	–
Singapore	Singapore	GMP	17025	•	•
Kaohsiung	Taiwan	–	17025	–	–
Taipei	Taiwan	–	17025	–	–

August 2014

\* New laboratory in 2014

## SGS WAVRE, BRUSSELS AREA – BELGIUM



### SERVICES

Method Development & Validation	Biologics Safety Testing (Endotoxin, Virus, Mycoplasma ...)
Analytical Chemistry – Batch Release	
Microbiological Testing	Potency Assays
Stability Studies	PK Bioanalysis (Small Molecules)
Host Cell Impurity Testing	Protein, Peptide Analysis & Quantification (PPB)
Cell-Based Assays	
Cell Line Characterization	

Size : 8,400 m<sup>2</sup>

Established : 1971

Employees : 121

Certifications : GLP/GCP/cGMP, ISO 17025

US-FDA registered & inspected

Site Manager : Wim Van Immerseel

Address : 10 Vieux Chemin du Poète

1301 Wavre, Belgium

Nearby : Brussels Airport

Tel : +32 10 42 11 11

email : [be.pharmaqc@sgs.com](mailto:be.pharmaqc@sgs.com)

[www.sgs.be/lifescience](http://www.sgs.be/lifescience)



## SGS M-SCAN WOKINGHAM, LONDON AREA - UK



### SERVICES

Method Development & Validation	Protein and Peptide Analysis and Quantification
Stability and Pre/Formulation	Proteomics
Biophysical Analysis	Antibody Drug Conjugate Analysis
Peptide, Protein, Glycoprotein & Antibody Characterization	Aggregation Analysis
Glycosylation (Monosaccharide, Sialic Acid & Linkage Analyses)	Pharmaceutical Analysis
Glycan Profiling Analysis	Extractables & Leachables
Post-Translational Modification Analysis	Product and Process-related Impurity Determination and Quantification
	Residual Solvent Analysis

Size: 2,100m<sup>2</sup>

Established: 1979

Employees: 72

Certifications: cGMP/GLP, US-FDA and MHRA  
registered & inspected

Site Manager: Dr. Chris Cox

Address: 2–3 Millars Business Centre, Fishponds Close  
Wokingham, Berkshire RG41 2TZ, UK

Nearby: Heathrow Airport

Tel: +44 118 912 1190

email: [uk.m-scan@sgs.com](mailto:uk.m-scan@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)



## SGS VITROLOGY GLASGOW - UK



### SERVICES

Assay Development & Tech.Transfer

Virology – *In Vitro* Adventitious Virus Assays and Cell Biology Assays

Electron Microscopy – Virus Particle Quantification & Identification

RT Assays (FPERT & qPERT)

Retrovirus Infectivity Assays

Custom Biosafety Assay Design

Mycoplasma, Mycobacteria, Spiroplasma & Virus Detection by qPCR

Bioanalytical Analysis

Regulatory Consultancy Services

Cell & Virus Banks Characterization

Raw Material and Bulk Harvest Testing

Drug Substance & Vaccine Batch Release Testing (Residual DNA & other residual process components)

Cell Line Induction Studies with customized end-points

Cell Line & Virus Identity & Genetic Stability Testing, Massive Parallel Sequencing

Stability Testing

Size: 1,124 m<sup>2</sup>

Established: 2007

Employees: 48

Certifications: cGMP / GLP, MHRA; US-FDA registered

Site Manager: Margaret Temple

Address: 5 South Avenue, Clydebank Business Park  
Glasgow, G81 2LG, UK

Nearby: Glasgow Airport

Tel: +44 141 952 0022

email: [biosafety@sgs.com](mailto:biosafety@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)



## SGS CLICHY, PARIS AREA – FRANCE



### SERVICES

Method Development & Validation

Analytical Chemistry – Batch Release

Microbiological Testing

Stability Studies

Extractables & Leachables

Amino Acid Analysis

Utilities Testing and Monitoring (Gas, Air, Water & Surface)

Cleaning Validation (atomic absorption)

Container Testing

Medical Device Testing

Elemental Impurities Testing

Size : 2,500 m<sup>2</sup>

Established : 1994

Employees : 60

Certifications : cGMP, ANSM/ANSES inspected

US-FDA registered & inspected

Site Manager : Dr. Paul Beyou

Address : 20–22 rue Charles Paradinas

92583 Clichy cedex, France

Nearby : Paris Airports

Tel : +33 1 41 06 95 85

email : [fr.pharmaqc@sgs.com](mailto:fr.pharmaqc@sgs.com)

[www.sgsgroup.fr/lifescience](http://www.sgsgroup.fr/lifescience)



## SGS POITIERS – FRANCE



### SERVICES

Immunoassay and LC-MS/MS Assay  
Development and Validation

Potency assays for characterisation,  
batch release and stability testing

PK Bioanalysis (Small and Large  
Molecules)

Immunogenicity

Enzymatic Activity Assays

Biomarkers Testing (simplex and  
multiplex, cell-based assays and  
Cobas®6000)

Cell Based Assay (Neutralization  
Bioassays, Potency Assays, Cell  
Activation and Inhibition and FACS  
Analysis)

Bioanalytical Testing For Biosimilars

Size : 3,200 m<sup>2</sup>

Established : 1980

Employees : 80

Certifications : GMP/GLP/GCP, US-FDA registered  
and inspected, ANSM inspected

Site Manager : Alain Renoux

Address : 90 Avenue des Hauts de la Chaume  
86281 Saint-Benoit (Poitiers), France

Nearby : Paris Airports, TGV Train Station

Tel : +33 5 49 57 04 04

email : [fr.pharmaqc@sgs.com](mailto:fr.pharmaqc@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)



## SGS TAUNUSSTEIN, FRANKFURT AREA – GERMANY



### SERVICES

Method Development & Validation	Utilities Testing and Monitoring (Gas, Air, Water & Surface)
Analytical Chemistry – Batch Release	
Microbiological Testing	Biologics Safety Testing (Endotoxin, Virus, Mycoplasma ...)
Extractables & Leachables	
Elemental Impurities Testing	Medical Device Testing

Size: 1,040 m<sup>2</sup>

Established: 1978

Employees: 60

Certifications: cGMP, ISO 17025

US-FDA registered & inspected

Site Managers: Dr. Sheida Hönlinger

Dr. Axel Wehrmann

Address: Im Maisel 14

65232 Taunusstein, Germany

Nearby: Frankfurt Airport

Tel: +49 6128 744 245

email: [de.pharmaqc@sgs.com](mailto:de.pharmaqc@sgs.com)

[www.de.sgs.com/lifescience](http://www.de.sgs.com/lifescience)



## SGS BERLIN – GERMANY



### SERVICES

Method Development & Validation	Extractables & Leachables
Analytical Chemistry – Batch Release	Cleaning Validation
Stability Studies	Elemental Impurities Testing
Container Testing	Particle Analysis

Size : 2,100 m<sup>2</sup>

Established : 1985

Employees : 61

Certifications : cGMP

US-FDA registered & inspected

Site Managers : Dr. Sheida Hönlinger

Dr. Hilde Brümmer

Address : Tegeler Weg 33

10589 Berlin, Germany

Nearby : Berlin Tegel Airport

Tel : +49 30 3460 7500

email : [de.pharmaqc@sgs.com](mailto:de.pharmaqc@sgs.com)

[www.de.sgs.com/lifescience](http://www.de.sgs.com/lifescience)



## SGS M-SCAN FREIBURG - GERMANY



### SERVICES

Method Development & Validation	Protein and Peptide Analysis and Quantification
Peptide, Protein, Glycoprotein & Antibody Characterization	Proteomics
Glycan Profiling Analysis	Aggregation Analysis
Post-Translational Modification Analysis	Product and Process-Related Impurity Determination

Size : 400 m<sup>2</sup>

Established : 2006

Employees : 9

Certifications : cGMP/GLP, US-FDA registered and inspected

Site Manager : Christian Wandschneider

Address : Engesserstr. 4a

79108 Freiburg i.Br., Germany

Nearby : Basel Airport

Tel : +49 761 611 677 60

email : [de.m-scan@sgs.com](mailto:de.m-scan@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)

## SGS M-SCAN GENEVA - SWITZERLAND



### SERVICES

Method Development & Validation

Peptide, Protein, Glycoprotein & Antibody Characterization

PK Bioanalysis (Small Molecules, Peptides, Biopharmaceuticals)

Glycan Profiling Analysis

Glycosylation, incl. Monosaccharides, Sialic Acid and Linkage Analyses

Post-Translational Modification Analysis

Protein and Peptide Analysis and Quantification

Proteomics

Product and Process-Related Impurity Determination and Quantification

Size: 600 m<sup>2</sup>

Established: 1991

Employees: 15

Certifications: cGMP/GLP

US-FDA registered & inspected

Site Manager: Dr. Luc-Alain Savoy

Address: 12 Chemin des Aulx

1228 Plan-les-Ouates (Geneva), Switzerland

Nearby: Geneva Airport and TGV Train Station

Tel: +41 22 794 83 74

email: [ch.m-scan@sgs.com](mailto:ch.m-scan@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)



## SGS LIVORNO, FLORENCE AREA - ITALY



### SERVICES

Method Development & Validation	Equipment Validation
Analytical Chemistry – Batch release	Instrument Calibration (ISO 17025)
Microbiological Testing	IT Compliance and Validation
	Process & Quality Support
Stability Tests	Regulatory Affairs

Size: 1,085 m<sup>2</sup>

Established: Sept 2013

Employees: 25

Certifications: ISO 9001, cGMP

Site Manager: Marco Benvenuti

Address: Via Cimarosa, 95/105, Livorno, Italy

Nearby: Florence and Pisa Airports

Tel: +39 0586 852591

email: [it.pharmaqc@sgs.com](mailto:it.pharmaqc@sgs.com)

[www.sgsgroup.it/lifescience](http://www.sgsgroup.it/lifescience)



## SGS MISSISSAUGA, TORONTO AREA – CANADA



### SERVICES

Method Development & Validation	Cell Bank/Line Characterization (Molecular Biology, Phenotypic ...)
Cleaning Validation	Biologics Safety Testing (Endotoxin, Mycoplasma, Host Cell Protein & Host Cell DNA Analysis)
Analytical Chemistry – Batch Release	Host Cell Impurity Testing
GC/MS, LC/MS-MS and ICP-MS	Cell-Based Assays
Microbiological Testing	Protein/Peptide Characterization
Stability Studies	Protein/Peptide Analysis & Quantification (HPLC, CE, CEIEF ...)
Container/Packaging Testing (Physical, E & L ...)	Immunoligand Assays
Cell Banking (including Stability)	
Microbial Disinfectant Efficacy Studies	

Size: 4,300 m<sup>2</sup>

Established: 1984

Employees: 125

Certifications: cGMP, ISO 9001: 2008 & 13485:  
2003

US-FDA registered & inspected

Site Manager: Michael Lindsay

Address: 6490 Vipond Drive

Mississauga, ON, L5T 1W8, Canada

Nearby: Toronto Pearson Airport

Tel: +1 905 364 3757

email: [ca.pharmaqc@sgs.com](mailto:ca.pharmaqc@sgs.com)

[www.sgs.ca/lifescience](http://www.sgs.ca/lifescience)



## SGS LINCOLNSHIRE, CHICAGO AREA – USA



### SERVICES

Method Development & Validation	Utilities Qualification and Monitoring (Gas, Air, Water & Surface)
Analytical Chemistry – Batch Release	Medical Device Testing
Microbiological Testing	Biologics Safety Testing (Endotoxin)
Stability Studies	Formulation/Pre-formulation Services
Container Testing	Biosafety Level 2 Sample Processing Center

Size : 3,700 m<sup>2</sup>

Established : 1972

Employees : 95

Certifications : cGMP/GLP, ISO 9001

US-FDA registered & inspected

Site Manager : Richard Bunnell

Address : 616 Heathrow Drive

Lincolnshire, IL 60069, USA

Nearby : Chicago O'Hare Airport

Tel : +1 847 821 8900

email : [us.pharmaqc@sgs.com](mailto:us.pharmaqc@sgs.com)

[www.sgsgroup.us.com/lifescience](http://www.sgsgroup.us.com/lifescience)



## SGS FAIRFIELD, NEW YORK AREA – USA



### SERVICES

Method Development & Validation	Safety Studies <i>in vitro</i>
Analytical Chemistry – Batch Release	Medical Device Testing
Stability Studies, Formulation/ Preformulation	Bioanalytical Testing of Biosimilars/ Proteins/Peptides
Microbiological Testing	Immuno/Enzymatic/Potency/Bio Assays
Container Testing	
Extractables & Leachables	Utilities Qualification and Monitoring (Gas, Air, Water & Surface)
Biologics Safety Testing (Endotoxin)	

Size: 3,345 m<sup>2</sup>

Established: 1995

Employees: 50

Certifications: cGMP, ISO 9001

US-FDA registered & inspected

Site Manager: Richard Bunnell

Address: 75 Passaic Avenue

Fairfield, NJ 07004, USA

Nearby: Newark Liberty Airport

Tel: +1 973 244 2435

email: [us.pharmaqc@sgs.com](mailto:us.pharmaqc@sgs.com)

[www.sgsgroup.us.com/lifescience](http://www.sgsgroup.us.com/lifescience)



## SGS M-SCAN WEST CHESTER, PHILADELPHIA AREA – USA



### SERVICES

Method Development & Validation	Proteomics
Peptide, Protein, Glycoprotein & Antibody Characterization	Oligonucleotide Analysis
	Pharmaceutical Analysis
Glycosylation, including Mono-saccharide and Sialic Acid Analysis	Unknown Identification
Glycan Profiling Analysis	Product and Process-related Impurity Determination
Post-Translational Modification Analysis	Residual Analysis
Protein and Peptide Sequencing & Quantification Analysis	Quantitative Mass Spectrometric Analysis

Size: 1,200 m<sup>2</sup>

Established: 1984

Employees: 16

Certifications: cGMP, US-FDA registered & inspected  
DEA licensed

Site Manager: Dr. Mark Rogers

Address: 606 Brandywine Parkway

West Chester, PA 19380, USA

Nearby: Philadelphia International Airport

Tel: +1 610 696 8210/8240

email: [us.m-scan@sgs.com](mailto:us.m-scan@sgs.com)

[www.sgs.com/biopharma](http://www.sgs.com/biopharma)



## SGS CARSON, LOS ANGELES AREA - USA



### SERVICES

Immunoassay Method Transfer,  
Development, Validation and  
Sample Analysis

Large Molecule Bioanalysis

PK bioanalysis (Large Molecules)

Biomarkers Testing (simplex and multiplex)

Immunogenicity

Microbiological Testing

Biologics Safety Testing (Endotoxin)

Sterility Testing /Environmental  
Monitoring

Size : 700 m<sup>2</sup>

Established : 2014

Employees : 6

Certifications : GMP/GLP, US-FDA registered

Site Manager : Dr. Jihye Jang Lee

Address : 20535 Belshaw Ave,  
Carson, CA 90746, USA

Nearby : LAX Airport, Long Beach Airport

Tel : +1 310 885 3792

email : [us.pharmaqc@sgs.com](mailto:us.pharmaqc@sgs.com)

[www.sgsgroup.us.com/lifescience](http://www.sgsgroup.us.com/lifescience)





## SGS SHANGHAI – CHINA



### SERVICES

Method Development and Validation

Analytical Chemistry – Batch Release

Healthcare Product/Healthcare Supplement Testing

Medical Device Testing

Microbiological Testing

Elemental Impurities Testing by ICP-MS

Stability Studies

Traditional Chinese Medicine Testing

Size: 1,500 m<sup>2</sup>

Established: 2006

Employees: 75

Certifications: cGMP, ISO 17025  
US-FDA registered

Site Manager: Andy Yi

Address: 9/F, 3rd Building No.889, Yishan Road  
200233 Shanghai, China

Nearby: Shanghai Hongqiao Airport

Tel: +86 21 6107 2718

email: [cn.pharmaqc@sgs.com](mailto:cn.pharmaqc@sgs.com)

[www.cn.sgs.com/lifescience](http://www.cn.sgs.com/lifescience)



## SGS CHENNAI – INDIA



### SERVICES

Method Development and Validation  
Analytical Chemistry – Batch Release  
Utilities Qualification and Monitoring (Gas, Air, Water & Surface)  
Healthcare Product/Healthcare Supplement Testing  
Medical Device Testing  
Microbiological Testing  
Safety Studies (*in vitro*)  
Stability Studies

Size: 1,850 m<sup>2</sup>

Established: 2005

Employees: 60

Certifications: cGMP, ISO 17025, WHO-prequalified,  
US-FDA registered & inspected

Site Manager: Janakiraman Arun

Address: 2nd Floor, TICEL Bio Park Ltd,  
Taramani Road, Chennai 600 113, India

Nearby: Chennai Airport

Tel: +91 44 6462 9711 to 9715

email: [in.pharmaqc@sgs.com](mailto:in.pharmaqc@sgs.com)

[www.sgsgroup.in/lifescience](http://www.sgsgroup.in/lifescience)

## SGS MUMBAI (NAVI) – INDIA



### SERVICES

Method Development & Validation	Stability Studies (ICH) & Storage
Analytical Chemistry – Batch Release	Residual Solvent Analysis
Utilities Qualification and Monitoring (Gas, Air, Water & Surface)	Cleaning Validation
	Microbiological Testing

Size: 1,393 m<sup>2</sup>

Established: 2012

Employees: 65

Certifications: cGMP, ISO 17025, US-FDA and Local  
FDA registered

Site Manager: Janakiraman Arun

Address: Plot No. A 773, MIDC, TTC Industrial Area,  
Koparkhairane, Navi-Mumbai, 400701, India

Nearby: Mumbai Airport

Tel: +91 22 6457 2540 45

email: [in.pharmaqc@sgs.com](mailto:in.pharmaqc@sgs.com)

[www.sgsgroup.in/lifescience](http://www.sgsgroup.in/lifescience)



## SGS SINGAPORE



### SERVICES

Method Development and Validation
Analytical Chemistry – Batch Release
Utilities Qualification and Monitoring (Gas, Air, Water & Surface)
Healthcare Product/Healthcare Supplement Testing
Medical Device Testing
Microbiological Testing
Stability Studies
Traditional Chinese Medicine Testing

Size : 497 m<sup>2</sup>

Established : 2006

Employees : 20

Certifications : cGMP, ISO 17025

US-FDA registered & inspected

Site Manager : Sethu Ragupathy

Address : 3 Toh Tuck Link, #01–02/03,  
Singapore 596228, Singapore

Nearby : Changi Airport

Tel : +65 63790 111

email : [sg.pharmaqc@sgs.com](mailto:sg.pharmaqc@sgs.com)

[www.sgs.sg/lifescience](http://www.sgs.sg/lifescience)



## SGS TAIPEI & KAOHSIUNG – TAIWAN



### SERVICES

Method Development and Validation	Healthcare Product/Healthcare Supplement Testing
Analytical Chemistry	Medical Device Testing
Microbiological Testing	Stability Studies
Container Testing	Traditional Chinese Medicine Testing
Extractables and Leachables	
Drug Abuse Testing	
Cosmetic Testing	

Size: 819 m<sup>2</sup>

Established: 2003

Employees: 48

Certifications: ISO 17025

Site Manager: Dr. Clark Chu

Address: No. 38, Wu Chyuan 7th Rd., New Taipei Industrial Park, Wu Ku District, New Taipei City, 24890, Taiwan (R.O.C.)

Nearby: Taiwan Taoyuan Airport

Tel: +886 2 2299 3279/7300/7301/7310/7100

email: [tw.pharmaqc@sgs.com](mailto:tw.pharmaqc@sgs.com)

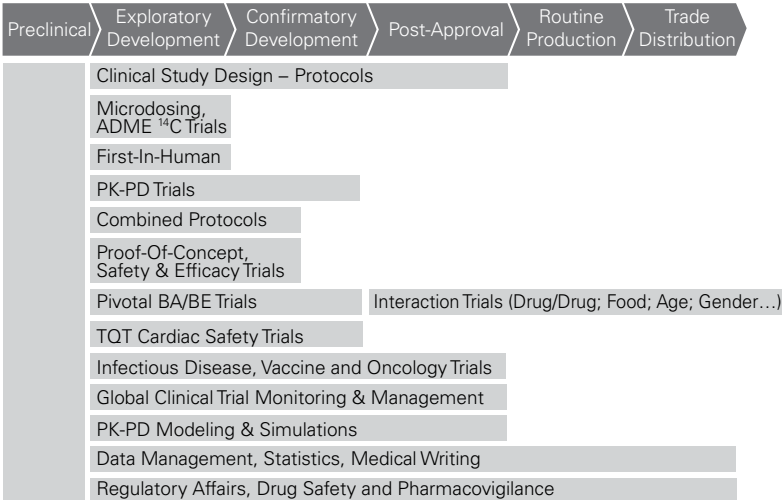
[www.tw.sgs.com/lifescience](http://www.tw.sgs.com/lifescience)



## CLINICAL RESEARCH

SGS is one of Europe's largest First-In-Human clinical pharmacology center and patient trial service provider. With a total capacity of 92 hospital beds and 8 clinical trial offices, SGS has the expertise to develop, deliver, and support on-time complex trials, screening, and large scale international studies focusing on vaccines, infectious and respiratory diseases.

### SERVICES



CLINICAL  
RESEARCH

Phase I-IV Services

CLINICAL RESEARCH

## SGS ANTWERP (STUIVENBERG) – BELGIUM



### SERVICES

Phase I–IIa, First-In-Human	TQTc Cardiac Safety Trials
PK-PD & ADME <sup>14</sup> C Trials	Pivotal BA/BE Trials
Combined Protocols	Vaccine Trials
Proof Of Concept (POC), POM, POP	Viral Inoculation trials and trials using GMOs - Quarantine Facilities
Interaction Trials (Drug/Drug; Food; Age; Gender)	Full GMP Pharmacy for formulation
	CSF Sampling
Early patients clinical trials – SMO	eSource clinic automation

Hospitalisation area : 92 beds

Size : 3,500 m<sup>2</sup>

Established : 1980

Employees : 60

Certifications : GCP, US-FDA inspected,  
GMP accredited pharmacy

Site Managers : Annick Van Riel and  
Omer Van Schoor

Address : Stuivenberg Hospital,  
Lange Beeldekensstraat, 267  
2060 Antwerpen, Belgium

Nearby : Antwerp Thalys Train Station

Tel : + 32 32 17 25 60

email : [clinicalresearch@sgs.com](mailto:clinicalresearch@sgs.com)

[www.sgs.be/lifescience](http://www.sgs.be/lifescience)



## SGS ANTWERP (NOORDERLAAN) – BELGIUM



### SERVICES

International & Local Clinical Project Management and Monitoring	eCTD (Incl. Creation Of Compliant Dossiers and eSubmission)
Consultancy & Study Design	Pharmacovigilance Strategies/Safety Database/Report Writing/Case Management
Country-Specific Feasibility Studies (Europe and CEE)	Safety Evaluation and Submission Support
Clinical Site Evaluation and Selection	Qualified Person For Pharmacovigilance, Batch Release, Medical Information
Regulatory Support Services from Pre-Clinical to Post-Marketing	Therapeutic Focus: Infectious Disease – Vaccines – Oncology – Respiratory
Clinical Trial/Marketing Authorization Applications & Product License Maintenance	

Established: 1980

Employees: 115

Certifications: GCP/ICH

Site Manager: Jean-Luc Marsat

Address: Noorderlaan 87

2030 Antwerpen, Belgium

Nearby: Antwerp Thalys Train

Tel: +32 35 45 44 11

email: [clinicalresearch@sgs.com](mailto:clinicalresearch@sgs.com)

[www.sgs.be/lifescience](http://www.sgs.be/lifescience)





## SGS MECHELEN, BRUSSELS AREA – BELGIUM



### SERVICES

Full Biometric Services  
From Phase I To Post-Approval

Data Management

PK/PD Modeling & Simulation Analysis

Secure Data Office

Report Writing

Full EDC/IRT Services

CDISC Registered Solution Provider:  
SDTM, ADaM, CDASH and Define.xml

Clintrial, InForm™ & Central  
Designer™, Rave®, eClinical OSTM,  
SAS®, WinNonlin®...

Established: 1995

Employees: 220

Compliance: CFR Part 11 FDA/GCP/ICH

Site Managers: Luc Braeken

Eric Snoek

Address: Generaal De Wittelaan 19A Bus 5

2800 Mechelen, Belgium

Nearby: Brussels Airport and Thalys Train

Tel: +32 15 27 32 45

email: [clinicalresearch@sgs.com](mailto:clinicalresearch@sgs.com)

[www.sgs.be/lifescience](http://www.sgs.be/lifescience)

## SGS GERMANTOWN, WASHINGTON, DC AREA – USA



### SERVICES

International & Local Trial Management and Monitoring	IND Writing, Submission and Management
Consulting & Study Design	Pharmacovigilance Strategies / Safety Database / Report Writing / Case Management
Country-Specific Feasibility Studies (North and South America)	
Clinical Site Evaluation and Selection	Therapeutic Focus: Infectious Disease – Vaccines – Oncology – CNS – Respiratory – Dermatology
Full Regulatory Support Services From Pre-Clinical To Post-Marketing	

Established: 2000

Employees: 27

Certifications: GCP/ICH

Site Manager: Stefan Comhaire

Address: 20411 Seneca Meadows Parkway  
Germantown, MD 20876, USA

Nearby: Washington, DC airports

Tel: +1 877 677 2667

email: [clinicalresearch@sgs.com](mailto:clinicalresearch@sgs.com)

[www.sgsgroup.us.com/lifescience](http://www.sgsgroup.us.com/lifescience)



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**WHEN YOU NEED TO BE SURE**

**SGS**