

PharmEng Technology

“Global Leaders in Technical and Engineering Consulting Services for cGMP Manufacturing Facilities, Laboratories & Support Infrastructure”

“Your Experts in cGMP Compliance”

Contact Info:

Europe Head Office: +34 673 565 099

Switzerland Office: +41 796 372 395

Email: luiz.g@pharmeng.com



Spain | France | Germany | Switzerland | Austria | Italy | Belgium | Ireland | Denmark | Brazil | Singapore | Taiwan | Malaysia | Canada |
USA | Puerto Rico



Company Overview

PharmEng Technology is a global ISO certified Pharmaceutical Compliance Consulting Firm with projects around the world providing quality services to the manufacturers of pharmaceutical and health care products for over 26 years.

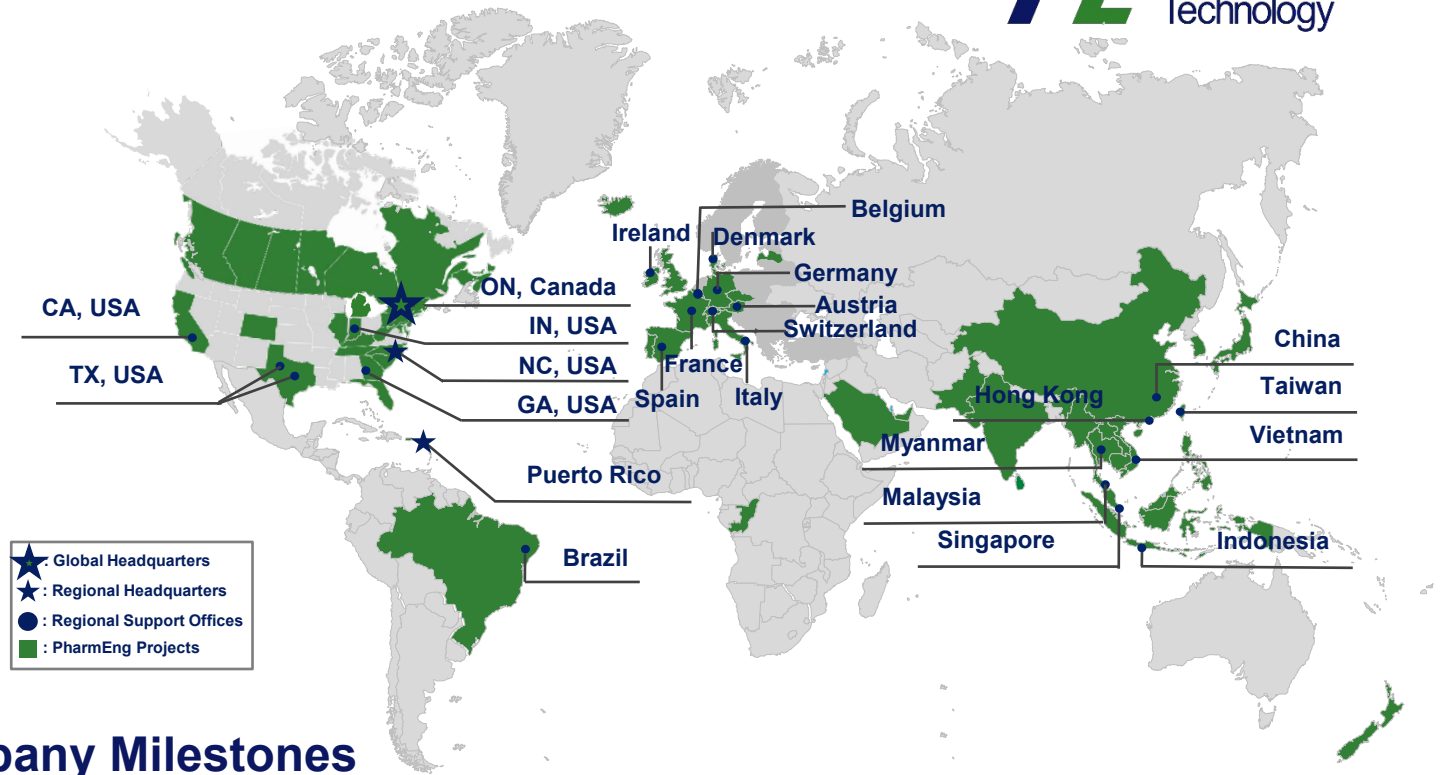
Our 300+ global consultants have expertise in Commissioning & Qualification, Validation, Quality Systems, Regulatory Affairs, Engineering, Medical Devices, Modular Cleanrooms, Toxicology, Thermal Mapping and Training.

PharmEng Technology is a cGMP compliant leader with international offices in Canada, Brazil, Spain, France, Germany, Switzerland, Austria, Italy, Belgium, Singapore, Malaysia, Indonesia, Taiwan, Ireland, Denmark, and USA and maintains strategic partnerships for extended capabilities internationally.

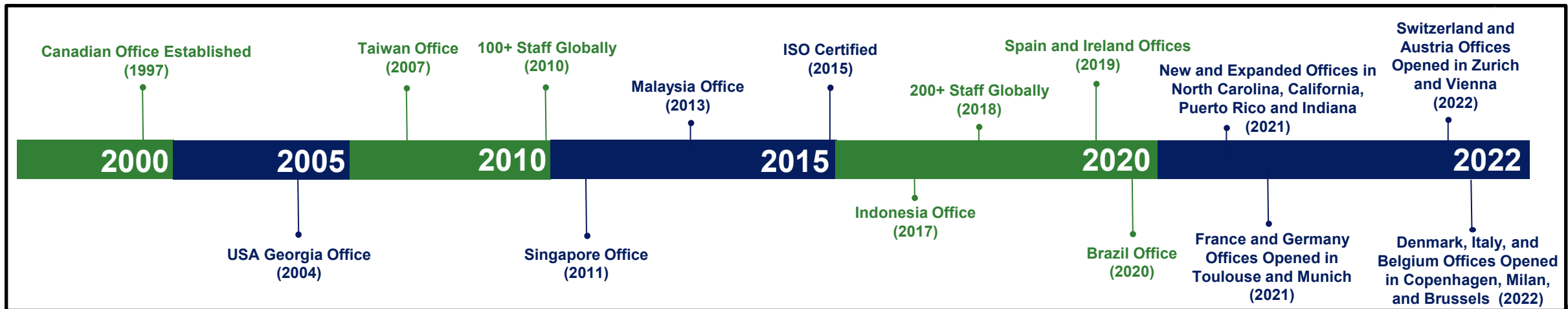
“Global Leaders in Technical and Engineering Consulting Services for cGMP Manufacturing Facilities, Laboratories & Support Infrastructure”

PharmEng at a Glance

- ✓ 26 Years Consulting
- ✓ Pharma and Life Science Focused
- ✓ 300+ Consultants Globally
- ✓ 25 Offices in 20 Countries
- ✓ ISO Certified
- ✓ Diversified Clients and Capabilities
- ✓ Flexible to work multiple ways



Company Milestones



Executive Global Leadership



Alan Kwong
President & CEO



Alex Della Mora
Executive V.P. and
Managing Director, Canada



Bruce Craven
Executive V.P. and
Managing Director, USA



Kenny Peng
Executive V.P. and
Managing Director, Asia &
Europe



VISION

To bring the most efficient, innovative, and quality solutions to clients to be delivered in a timely and effective manner.



MISSION

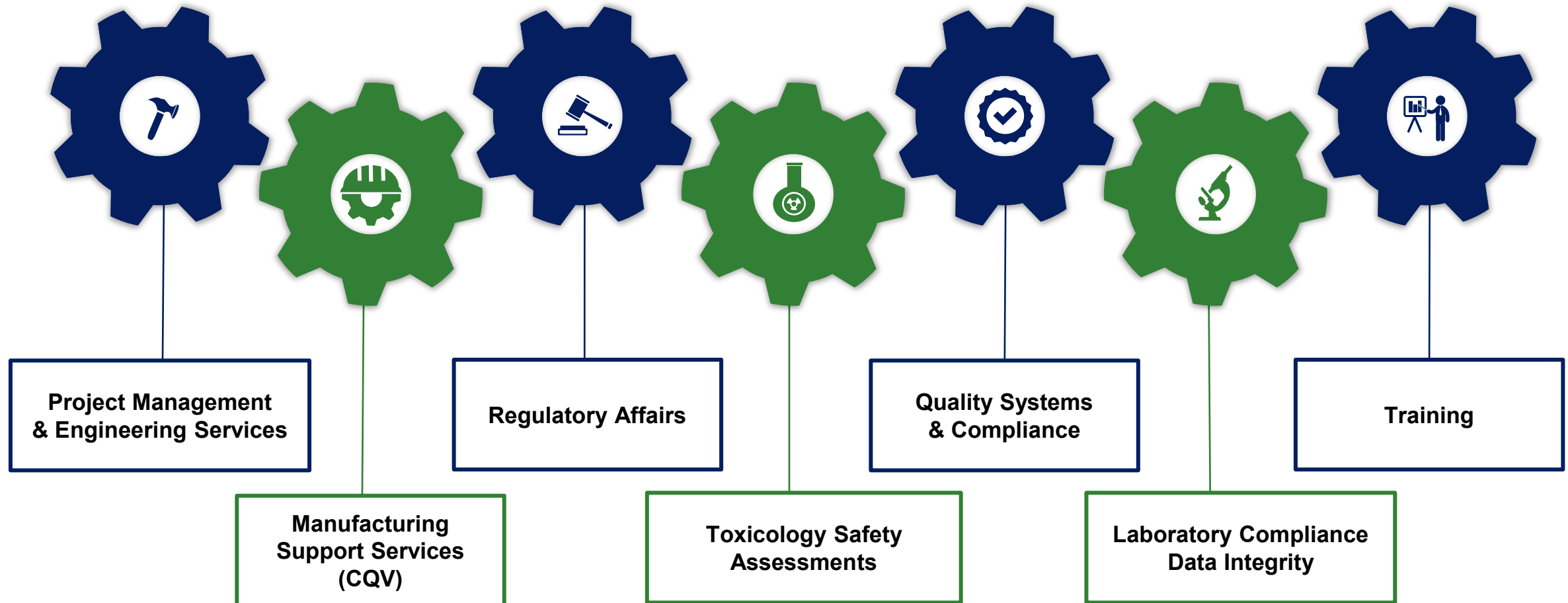
To provide unparalleled value to our clients to attain regulatory compliance and maintain a competitive advantage in a dynamic regulatory environment under our "Quality Policy."



GOALS

To assist Pharmaceutical, Biotechnology, Medical Devices and Nutraceutical companies to achieve optimal time-to-market of their pipeline products.

“We support our clients with rapid, reliable and high-quality consulting services.”



Biotechnology

Pharmaceuticals

Medical Devices

Cannabis

Project Lifecycle



Project
Management



Engineering



Commissioning
& Qualification



Validation

Pre-CD

CD

BD

DD

Build

CQV

Hand Over

Product Lifecycle

Phase 1 & 2
Development

Phase 3
Development

Pre-Market

Post-Market

M&A / Product
Transfer

Regulatory
Affairs



Lab Compliance
Services



Quality
Compliance



Toxicology
Assessment



Training

“We support our clients with rapid, reliable and high-quality consulting services.”

TECHNICAL SERVICES

- GMP/GLP: Engineering, QMS, QA, compliance, validation, supplier audit
- Drug Development: CMC, validation, Scientific Affairs
- Project Management

COMMERCIAL SERVICES

- US, Canada
- China, Taiwan, Hong Kong – South-East Asia
- Europe
- Multi-market regulatory and market strategy

SPECIALTY SERVICES

- International projects: Technology transfer
- Consent decree, serialization
- Professional Training
- International projects: Technology transfer

Project Management & Engineering Services



- Occupational Health & Safety Management
- Facility, Process Planning & Design
- Modelling, Simulation and Scheduling
- Budget & Cost
- Risk Assessment
- Bio-Pharmaceutical Process Engineering
- Environmental Impact Management
- Automation & Process Controls

Manufacturing Support Services



- Commissioning / Qualification / Validation
- Technology Transfer
- Process Validation
- Manufacturing Systems
- Cleaning Validation
- Facility / Utility / Equipment / Instrument
Qualification
- Computer System Validation (CSV)
- Packaging
- Data Integrity Assurance

Regulatory Affairs



- Master File Preparation (DMF, SMF, MFA, VMF)
- eCTD / CTD Submission
- Prepare & Submit Post Approval Reports
- Establishment Registration & Renewal
- Product Assessment & Regulation
- Regulatory Strategy & Intelligence
- CMC Preparation
- Pharmacovigilance

Toxicology Safety Assessments



- Toxicology Data & Safety Assessment
- Hazard Identification – Safety Assessments
- Critical Effects – Evaluation of Chemicals & Potential Effects (ADEs, PDEs, OELs)
- Determination of No Observed Adverse Effect Level (NOAEL)
- Uncertainty & Modifying Factors
- Pharmacokinetic Adjustment(s)
- Cleaning Validation Development & Support
- Extractables & Leachables
- Safety Development & Training

Quality Systems & Compliance



- Quality Management Consultation & Training
- Gap & Quality Performance Analysis
- Audit & Inspection Management
- ISO & cGMP Implementation
- Quality System Documentation
- Risk / Crisis & CAPA / Deviation Management
- Environment Monitoring
- ALCOA+ Assessment
- Dealing with Regulatory Organizations (FDA, EMA, AEMPS, etc.)
- Trackable & Traceability Projects for Unforeseen Incidents

Laboratory Compliance



- Method / Assay Validation
- Documentation Audits, Review & Remediation
- Documentation Traceability & Review

Training



- Qualification: Computer / Cleaning / Process / Equipment / Utilities
- RA: Biotechnology, Pharmaceuticals & Medical Devices
- QA: Audit Programs & CAPA
- cGMPs/GLPs: FDA, Health Canada and EU

Toxicology

Toxicology Product Assessment



- Product Characterization
 - API or product Mechanism of Action (MOA)
 - Pharmacokinetics – absorption, distribution, metabolism, excretion (ADME)
- Disease or Ailment Etiology
- Summary of Pre-Clinical & Clinical Trials (if available)
- Summary of Personal Protective Equipment (PPE) for worker safety
- Determination of Manufacturing Product vs. Single Use Technology (SUT)
- Risk Assessment of Product, Health-Based Exposure Limit (HBEL) – Categorization of Overall Toxicity and Permitted Daily Exposure (OEL, μg of API/day) (Data Permitting)
- Safety Training Provided Per Request
- Regulatory & Governance Documents Guidance

Extractables and Leachables

- Evaluation of potential of E&L across manufacturing process by a board-certified toxicologist (DABT)
- Provide assessment of materials & contact chemicals that will not elicit E&L along with list of materials & contact chemicals in which production of E&L is unknown & requires further investigation
- Document all findings via a report & table/spreadsheet
- Zipped file of all references uses in evaluation



Workers Compensation Expert Consulting

- Verbal preliminary case review
- Written evaluation with conclusions supported by weight of evidence
- Impairment determination based on quantitative (amount) data from blood samples
- Zipped file of all references used

Cleaning Validation



- Aligning cleaning validation with toxicological evaluation to meet regulatory expectations
- Implementing results in compliance, and patient safety.
- Modernize cleaning programs focus on patient safety and must include health-based exposure limits (HBEL)
- Customized solution for your CV Master Plan
 - Cleaning Process Design & Development
 - Cleaning Process Performance Qualification
 - Cleaning Process Verification
- Author/revise CV SOPs
- Evaluate toxicity of biopharmaceuticals, therapeutic proteins, chemicals, and active pharmaceutical ingredients
 - Determine No Observed Adverse Effect Level (NOAEL)
 - Calculate Permitted Daily Exposure (PDE)

Case Studies



Madrid, Spain
Granada, Spain

SERVICES

Project Management & Engineering Services

SCOPE OF WORK

- **Building Utility Systems Validation**
- **Re-qualification Reports of Nitrogen, Compressed Air, WFI, Purified Water and Clean Steam**
- **Equipment Qualification**
- **Filling Lines Qualification**
- **Change Management**



*Madrid, Spain
Granada, Spain*

SERVICES

Quality Systems & Compliance

SCOPE OF WORK

- Internal Audit: Review of Annual Product Quality Review, Quality Records, Change Controls, Investigation Management, Product Approval, Trainings, etc.
- Consulting focused on AEMPS, EMA and FDA Regulations
- Supporting as a team member responsible for coordinating and identifying Regulatory and Compliance Remediation activity plans related to product transfer



*Madrid, Spain
Granada, Spain*

SERVICES

***Support in the Introduction and
Production of
mRNA Vaccines
(COVID-19 variants, Flu, RSV)***

SCOPE OF WORK

- Tech Transfer Master Plan
- Validation Master Plan
- Validation Plans
- Process Description
- Cleaning Validation Plans, Protocols & Reports
- Cleaning Verification Plans, Protocols & Reports



*Madrid, Spain
Granada, Spain*

SERVICES

***Support in the Introduction and
Production of
mRNA Vaccines
(COVID-19 variants, Flu, RSV)***

SCOPE OF WORK

- mRNA-1273 new vial fill qualification, new vials size qualification
- Media fill audit
- PPQ Protocols & Reports
- Inspected executed PPQ Protocols
- Stability Protocols



*Madrid, Spain
Granada, Spain*

SERVICES

***Support in the Introduction and
Production of
mRNA Vaccines
(COVID-19 variants, Flu, RSV)***

SCOPE OF WORK

- In-Process Hold Time Protocol & Reports
- Buffer Hold Time Protocol & Report
- Continued Process Verification (CPV) Plan, Protocol & Reports
- Creation of SOPs
- Gap and Risk Assessments (GARAMP), complains and investigations



Madrid, Spain
Granada, Spain

SERVICES

***Support in the Introduction and
Production of
mRNA Vaccines
(COVID-19 variants, Flu, RSV)***

SCOPE OF WORK

- **Assisting in documenting changes/updates and working to implement those changes**
- **Participate/lead cross-functional team meetings between sending and receiving sites and follow up on actions**
- **Project Management for COVID-19 variants qualification**



Madrid, Spain
Granada, Spain

SERVICES

Training

SCOPE OF WORK

- Good Documentation Practices (GDP)
- Visual Inspection focused on FDA, EMA, JAPAN Regulations
- Data Integrity, ALCOA assessment
- Nitrogen and Compressed Air
- Annex I of the EudraLex - Volume 4 - Manufacture Sterile Medicinal Products

SERVICES

RSV Vaccine project: led by Aptio Group



BAVARIAN NORDIC

Denmark

SCOPE OF WORK

- Delivered expert process advice on vaccine production
- Expertise on single use technology
- Process transfer





Gentofte, Denmark

SERVICES

*Formulation Room
Project management role to deliver a
production suite in an existing
facility*

SCOPE OF WORK

- Future filling line, Line 5
- Single-use filling in isolator
- CSA directly with PharmEng
- Successful delivery of filling line qualification for next filling line offered to PharmEng → New project





Kinsale, Ireland

SERVICES

IE2B Project

SCOPE OF WORK

- Tirzepatide (TZP) project (highly in demand diabetes drug)
- Computerised System Validation for the MES system within Phase 1 & 2 of project





Rocky Mount, USA

SERVICES

Process Engineering Support and Compliance Review

SCOPE OF WORK

- Author and execute product study protocols
- Follow-up with partner functions (e.g. analytical testing labs, operations, validation) to ensure on-time completion of deliverables. Per guidance from Tech Services establish process parameters, timers, run rates, material flow, etc. as needed
- Assisting in documenting changes/updates to manufacturing processes and working with manufacturing, engineering and validation to implement those changes
- Supporting as a core team member responsible for coordinating and identifying Regulatory and Compliance Remediation activity plans related to product transfer



Rocky Mount, USA

SERVICES

Technical Project Lead

SCOPE OF WORK

- Support the technology transfer process team on activities related to successfully transferring current marketed drug product to a new external supplier manufacturing sites
- Serve as technical lead for gathering product knowledge, collating into easily analyzed formats, generating visual outputs of data and working with other project workstreams on requested deliverables
- Assist with generating knowledge transfer documents, technology transfer plans and other transfer related documents between sending / receiving sites
- Provide first level review of technical documents generated by receiving site and coordinate internal technical review of sending site / project SMEs
- Participate/lead cross-functional team meetings between sending and receiving sites. Generation of notes, output from meetings
- Support administrative activities for the workstream such as action/issue item tracking, generation of meeting minutes, coordination of focused working sessions between sending and receiving sites and follow up on actions
- Responsible for participating in schedule development and providing monthly status updates to master scheduler
- Interact with engineering, regulatory and laboratory workstreams



Sanford, USA

SERVICES

- *Drug product Gap Assessments*
- *Drug Substance Gap Assessments*
- *Overseeing qualification efforts, change controls, program & process improvements in addition to day to day support*
- *Piping Engineering support*
- *Data integrity support*
- *Change Control support*
- *Process Engineering support*

SCOPE OF WORK

- **Performing technical review for Operations**
- **Performing technical review of regulatory documentation**
- **Performing technical review of SOP and MBRs**
- **Provide technical support for the operations group**



North America / Europe / Asia

SERVICES

PharmEng has provided the cGMP, engineering, validation, and design expertise to ensure that Sanofi facilities met regulatory requirements.

- Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities
- Provided expertise on vaccine production equipment validation (Includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and others)
- Completed a Cleaning Validation Project for a bin blending suite equipment

SCOPE OF WORK

- Computer Validation (New & Legacy Equipment)
- Equipment Validation
- Building Utility Systems Validation
- Warehouse Temperature Mapping
- Laboratory Instrument Validation
- Cleaning Validation
- Process and Cleaning Validation
- FDA PAI Audit

End to End Project Lifecycle



Sanofi Pasteur - Toronto

PharmEng has been consistently delivering high quality consulting services to Sanofi Toronto for

26 Years



Responsibilities:

- ✓ Equipment Validation
- ✓ Building Utility Systems Validation
- ✓ Computer Validation (New & Legacy Equipment)
- ✓ Warehouse Temperature Mapping
- ✓ Laboratory Instrument Validation
- ✓ Cleaning Validation
- ✓ FDA PAI Audit

PharmEng has provided cGMP, engineering, validation, and design expertise to Sanofi Toronto's state-of-the-art facilities for 26 years.

There are presently 65 PharmEng employees on site daily.

Commissioning, Qualification, Validation (CQV)



Synopsis of Multiple Pos for Large Projects

Client: Sanofi Pasteur

Location: Holly Springs, USA

*Project Type: cGMP / Engineering /
Design / Validation / Regulatory Affairs*

Pricing Model: Time and Materials



Responsibilities:

- ✓ Computer Validation
- ✓ Equipment Validation
- ✓ Building Utility Systems Validation
- ✓ Warehouse Temperature Mapping
- ✓ Laboratory Instrument Validation
- ✓ Process and Cleaning Validation

Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities. Contributed expertise on vaccine production equipment validation (includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and other). Completed a Cleaning Validation Project for a bin blending suite equipment.



Sanofi USA: Swiftwater and Framingham



Swiftwater, PA

Framingham, MA



Responsibilities:

Swiftwater, PA

- ✓ Computer System Validation
- ✓ Equipment and Instrument Validation
- ✓ Building Utility Systems Validation
- ✓ Warehouse Temperature Mapping

Framingham, MA

- ✓ Computer System Validation
- ✓ Manufacturing Automation System Validation
- ✓ Data Integrity
- ✓ Auditing

Provided validation services & cGMP expertise new and renovated vaccine production and supporting facilities. Contributed expertise on vaccine production equipment validation (includes bioreactors, fermenters, clean-in-place skids, column chromatography skids, and other). Validation of MES and DCS. Auditing for UAR.



Colorado, USA

Novartis Gene Therapies

SERVICES

***Process Engineering support for the
Computerized Maintenance Management
System (CMMS)***

SCOPE OF WORK

- **Development of equipment and maintenance data**
- **Loading of data into CMMS**
- **Review and approval of CMMS data**
- **Support of spare parts identification**
- **Development of preventative maintenance plans**



Colorado, USA

Novartis Gene Therapies

SERVICES

MS&T Support (MS&T deliverables support including protocol generation and execution, risk assessments and summary reports)

SCOPE OF WORK

- PPQ
- Comparability Studies
- Technology Transfer
- Cleaning Validation and related topics



Eurofarma

Itapevi, Brazil

SERVICES

Quality Systems & Compliance

SCOPE OF WORK

- Internal Audit
- Supplier Audits (China, Mongolia, South Korea, Spain, France, Taiwan, The Netherlands, etc.)
- Quality Compliance Assessment



Mycenax Cell Culture Facility

Client: Mycenax Biotech

Location: Jhunan, Taiwan

*Project Type: Biopharmaceutical /
Interior Fit-Out*

Pricing Model: Fixed Price



Responsibilities:

- ✓ Architectural Design
- ✓ Cleanroom and HVAC
- ✓ Procurement
- ✓ Construction Support
- ✓ Commissioning
- ✓ Qualification
- ✓ Process Validation
- ✓ Electrical Distribution
- ✓ Low Voltage / Extra Low Voltage
- ✓ Fire Protection System

The production line 3 of Mycenax Biotech in the current clean room P301 located on 1/F of No 6, Kedung 3 Road, is mainly planned to use a 50L fermenter for the upstream microbial fermentation process. An additional 200L microbial fermenter will be purchased, and room planning, and process flow will be adjusted to fulfil the requirement of the expansion of the production line's three-microbe upstream capacity. Simultaneously carry out downstream room expansion and W302 function modification.



Project Empower

Client: FujiFilm Diosynth

Location: RTP, USA

Project Type: Biologic, Vaccine & New Drug

Pricing Model: Time and Materials



Responsibilities:

- ✓ Modular IOQ Development for HPLC/LACe System
- ✓ Accommodate over Fifty Units
- ✓ Qualification
- ✓ IOQ Summary Reports
- ✓ Change Management Support

This global upgrade project involved the migration of multiple Empower linked lab equipment components to a new lab facility. Qualification services were necessary to facilitate the relocation of a number HPLC units equipped with LACe acquisition servers. Site representatives operated closely with a cross functional client team composed of Quality Control, Lab Automation, Lab Engineering and MT&S.

Multi-Stage Global Project



Multinational Medical Device Company

Client: ALCON

Locations:

Canada, USA, Malaysia, Indonesia



Responsibilities:

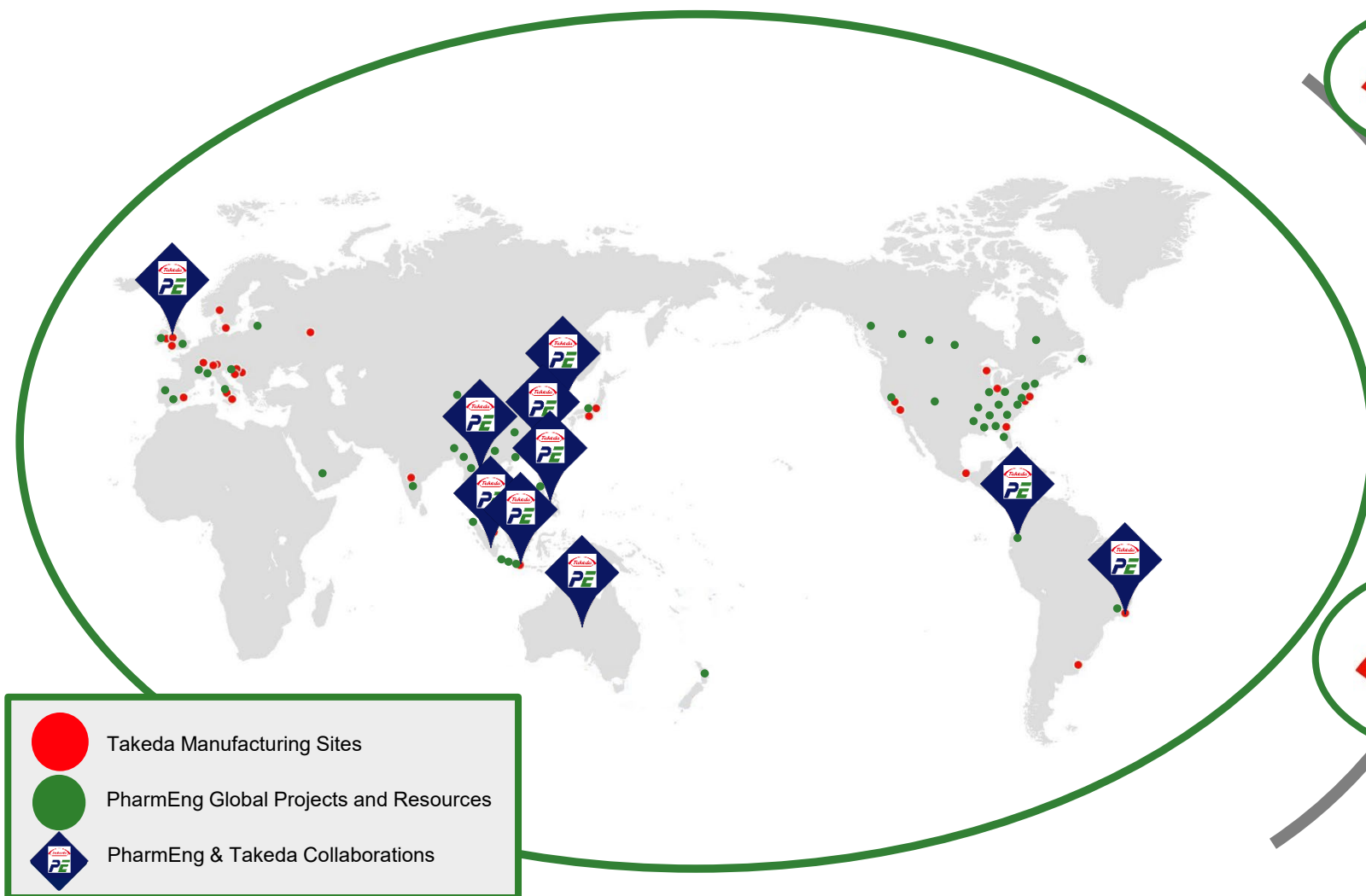
- ✓ Quality Systems Gap Remediation
- ✓ Quality Assurance
 - ✓ ISO 13485 Quality System
 - ✓ SOPs Development
 - ✓ Annual Product Review (CPAT)
 - ✓ Product Quality Management (PQM)
- ✓ Technology Transfer & Start Up
- ✓ Facility & Utilities Qualification
- ✓ Validation

Managed Project deliverables and success. Installed 6 manufacturing/package lines.

Validated entirety of Process and Equipment.



Projects



Takeda United Kingdom

Global CMC Remediation Project in:

- Philippines
- Singapore
- Thailand
- Taiwan
- Indonesia



Takeda Indonesia

Halal Compliance



Global CMC Remediation Project



Takeda United Kingdom

*Chemistry, Manufacturing & Control CMC Compliance
Sub-Contracted by Takeda United Kingdom for:*

- ✓ CMC Compliance Analysis
- ✓ Remediation
- ✓ GAP Analysis



5 Sites Inspected & Remediated

Countries:

- Taiwan
- Thailand
- Philippines
- Indonesia
- Singapore



SERVICES

Halal Compliance

*Indonesia:
RDTX Tower 10th Floor, Jl. Prof. Dr. Satrio Kav. E-
IV No.6,*

SCOPE OF WORK

- Halal readiness preparation services
- Site has been Halal-approved
- Project Leader: Dody Tanusubandi



SERVICES

Validation Support Services

*Singapore (formerly Baxter):
Woodlands Industrial Park D St 2, Singapore
737778*

SCOPE OF WORK

- To be agreed
- Project starting in a few weeks



California (formerly Baxter)

SERVICES

Qualification Services

SCOPE OF WORK

- Temperature Mapping Services

Takeda Indonesia

Client: Takeda Indonesia

Location: Jakarta, Indonesia

Project Type: Cleaning Validation



Responsibilities:

- Validation Plan
- Cleaning validation procedures
- Analytical detergent procedures
- Equipment cleaning SOPs
- Cleaning development protocol and reports
- Cleaning validation protocol and reports

Provided Cleaning Validation Support

1) *Experienced* : Highly qualified, dedicated, and rapidly growing professional team



Professional...

Our **300+ consultants** are specialized in pharmaceutical, biotechnology and engineering industries. We are critically selective of our resources and maintain optimally experienced staff from entry level to SMEs.

Diversified...

Our company is a multinational company with staff providing services globally for **clients small to large**. Our international presence ensures we maintain our knowledge of regulatory practices and on the “cutting edge” of emerging trends around the globe.

Leadership...

Our leadership team has multiple years of industry experience which allows us to be extremely agile and responsive to our clients. PharmEng has maintained an impeccable reputation **since 1997**, and will continue to do so.

2) Efficient: Client focused service that delivers quality results on time and within budget

Testimonials...

“Due to your efforts and support for the GTx DS and DP verification assessment and gap remediation efforts, consistency, documentation corrections and compliance gaps have been identified. The thoroughness of your assessments/reviews has allowed GTx to determine remediation actions and timelines so that there is no impact.

You demonstrated the value of excellence in working as a Sanford team to ensure compliance which will lead to successful PAI and general audits in the upcoming years. There was a lot of time and effort put into these assessments and we thank you for your expertise and contributions.”

- Pfizer

“I am very delighted to announce that we have completed the SoftMax validation project in QC Immunochemistry at Sanofi Pasteur . During this project, a total of 5 SoftMax templates were validated and implemented on time (before 31May2016).

This project has a big impact on our operations in Quality Control as it is directly related to the improvement of quality and efficiency for our department.

I am sending this email to personally thank PharmEng Technology for their unaccountable contribution in completion of this project.”

- Sanofi Pasteur (Nirav Patel - QC Immunochemistry Manager)



Our Clients

Proven: Professionals in various multi-million projects every year

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Certifications

ISO 9001:2015 - National Ministry Supplier Development Council



CERTIFICATE OF REGISTRATION

This is to certify that

PharmEng Technology Inc.

23 Lesmill Road, Suite 410 Toronto, Ontario, M3B 3P6, Canada

operates a

Quality Management System

which complies with the requirements of

ISO 9001:2015

for the following scope of certification

Office supporting function and services (HR, Accounting and IT) in providing resources for consulting to the Life Science Industry in North America.

Certificate No.: CERT-0118765
File No.: 1623134
Issue Date: May 4, 2021

Original Certification Date: May 14, 2013
Certification Effective Date: May 12, 2021
Certificate Expiry Date: May 11, 2024

Frank Camasta
Global Head of Technical Services
SAI Global Assurance



Registered by:
SAI Global Canada Limited (SAI Global), 25 Carlton Court, Suite 200, Toronto, Ontario M5V 1Y1 P10 Canada. This registration is subject to the SAI Global
Terms and Conditions for Certification. While all our care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for
proper inspection. This certificate remains the property of SAI Global and must be returned to them upon request.
To verify that this certificate is current, please refer to the SAI Global Online Certification Register:
<https://www.sai-global.com/certification/register>



Certifications (continued)

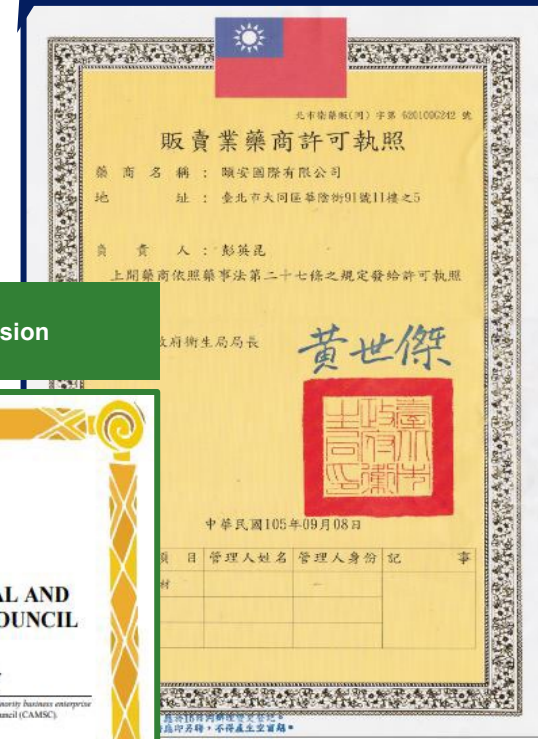
Certificate of Conformity Good Distribution Practice for Medical Device - (Malaysia)



Medical Device Establishment License (Malaysia)



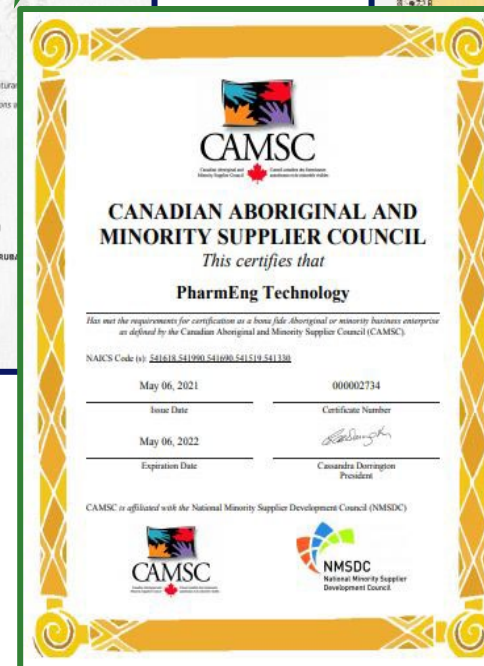
Pharmaceutical Wholesaler License (Taiwan)



SOCOTEC International Certification Good Distribution Practice for Medical Devices - (Singapore)



Diversity and Inclusion





CONTACT INFORMATION

Spain

+34 673 565 099

France

+33 6 08 71 79 95

Germany

+49 176 32346266

Switzerland

+41 796 372 395

Belgium

+32 456 59 45 15

Austria

+43 664 1651536

Ireland

+353 21 2376009

Denmark

+45 9389 1976

Brazil

+55 81 99424-5885

Italy

+39 334 2862080

PharmEng Technology has offices in Barcelona (Spain), Toulouse (France), Munich (Germany), Zurich (Switzerland), Vienna (Austria), Milan (Italy), Brussels (Belgium), Cork (Ireland) and Copenhagen (Denmark) to serve the Europe (EU) region.

Spain

Av. Diagonal, 409, 1ª Planta,
08008 BARCELONA
(Europe Head Office)
Phone: +34 673 565 099

Austria

Mariahilfer Strasse 123/3,
1060, VIENNA
Phone: +43 664 1651536

Belgium

Rue des Colonies 11,
1000 BRUSSELS
Phone: +32 456 59 45 15

Germany

Theatinerstrasse 11, Fünf Höfe,
80333 MUNICH
Phone: +49 176 32346266

Italy

Via Caldera, 21 Building F
(Palazzina Servizi/Easypoint)
1st floor, 20153, MILAN
Phone: +39 334 2862080

Switzerland

Badenerstrasse 549
8048 ZURICH
Phone: +41 796 372 395

France

78 Allée Jean Jaurès,
Le Pré Catelan - Bât.F
31000 TOULOUSE
Phone: +33 6 08 71 79 95

Denmark

PharmEng Nordic ApS,
Fredericiagade 15,
1310 COPENHAGUEN
Phone: +45 9389 1976

Ireland

The Cube Building,
Monahan Road,
T12 H1XY CORK
Phone: +353 21 2376009

Spain Office: Barcelona



**Av. Diagonal, 409, 1ª Planta,
08008 BARCELONA
(Europe Head Office)
Phone: +34 673 565 099**

Ireland Office: Cork



**The Cube Building,
Monahan Road,
T12 H1XY Cork, Ireland
Phone: +353 21 2376009
E-mail: eoghan.g@pharmeng.com**



France Office: Toulouse



PHARMENG TECHNOLOGY S.L.
78 Allée Jean Jaurès
Le Pré Catelan - Bât.F
31000 TOULOUSE
Phone: +33 6 08 71 79 95

Germany Office: Munich



PHARMENG TECHNOLOGY S.L.
Theatinerstrasse 11, Fünf Höfe,
80333 MUNICH
Phone: +49 176 32346266



Switzerland Office: Zurich



PHARMENG TECHNOLOGY S.L.
Badenerstrasse 549,
8048 ZURICH
Phone: +41 796 372 395



Austria Office: Vienna



PHARMENG TECHNOLOGY S.L.
Mariahilfer Strasse 123/3,
1060 VIENNA
Phone: +43 664 1651536



Denmark Office: Copenhagen



**PharmEng Nordic ApS,
Fredericiagade 15,
1310 København, Denmark
Phone: +45 9389 1976
E-mail: steven.d@pharmeng.com**

Italy Office: Milan



PHARMENG TECHNOLOGY S.L.
Via Caldera, 21 Building F
(Palazzina Servizi/Easypoint)
1st floor, 20153, Milan, Italy
Phone: +39 334 2862080



Belgium Office: Brussels



PHARMENG TECHNOLOGY S.L.
Rue des Colonies 11,
1000 BRUSSELS
Phone: +32 456 59 45 15



Brazil Office: Recife



PHARMENG TECHNOLOGY S.L.
Av. Eng. Antônio de Góes 60,
Sala 702, JCPM Trade Center
51.010-000 Pina RECIFE
Phone: +55 81 99424-5885

Contact



PharmEng Europe Regional Address

Av. Diagonal, 409, 1ª Planta, 08008 Barcelona, Spain (**Europe Head Office**)
Badenerstrasse 549, 8048 Zurich, Switzerland



PharmEng Regional Contact Number

Europe Head Office: +34 673 565 099
Switzerland Office: +41 796 372 395



Email

luiz.g@pharmeng.com – EU
marco.b@pharmeng.com – Switzerland
steven.d@pharmeng.com – Denmark

juan.e@pharmeng.com – Spain
eoghan.g@pharmeng.com – Ireland



Website

www.pharmeng.com English

**THANK YOU
GRACIAS
MERCI
DANKE
TAK**

