

Life Science by Emtunga

45 YEARS OF EXPERIENCE HAS TAUGHT US TO PRODUCE
COST EFFECTIVE SOLUTIONS BASED ON
WORLD CLASS EXECUTION

Project Experience

May 2021

EMTUNGA

A long and successful track record world wide

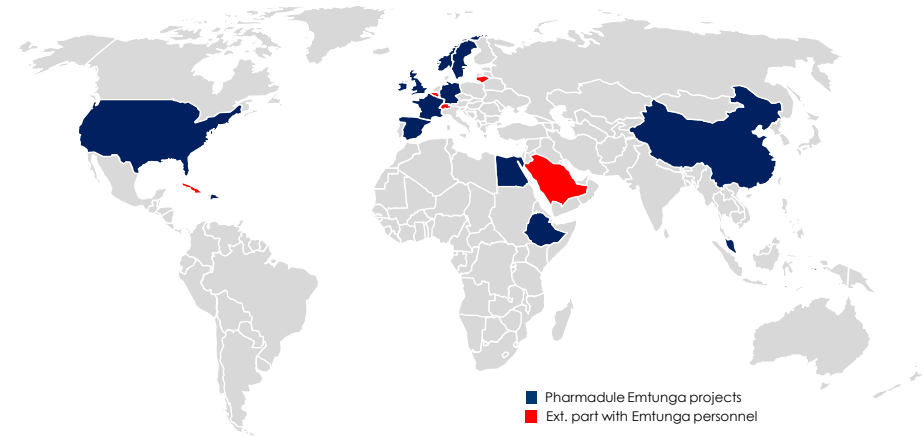
DELIVERIES SINCE **1986**

PHARMACEUTICAL FACILITIES (INHOUSE):	35
PHARMACEUTICAL FACILITIES (PARTNERS*):	18
NUMBER OF MODULE SECTIONS:	~ 1.700
NUMBER OF SQM DELIVERED:	~ 50.000

SUPPLIER TO THE MAJOR PHARMACEUTICAL COMPANIES



DELIVERIES ALL OVER THE WORLD



Reference List – Tailormade Pharmaceutical Facilities

Pharmadule Emtunga projects

End Client	Client	Country	Description	Delivery Year	No. of Modules
Genentech		San Francisco CA, USA	Aseptic Filling and Lyo Facility, 3200 m ²	2006	56
Glaxo Smith Kline (GSK) Biological		Hamilton MT, USA	Biotech MPL Expansion Facility, 2800 m ²	2006	56
AMO INC, Microbiological Laboratory		Uppsala, Sweden	Microbiological Laboratory	2006	13
Cook Imaging (Baxter) Phase IV		Bloomington IN, USA	Aseptic Formulation, Filling & Lyo Facilities, 3700 m ²	2006	62
AstraZeneca		Wuxi, China	Lyophilization module	2006	2
Eli Lilly & Co		Kinsale, Irland	Sterile Bulk Facility	2005	90
Merck & Co		Durham NC, USA	Aseptic Filling and Lyophilization Facility	2005	114
Eli Lilly & Co		China		2004	17
Robert Bosch GmbH		Crailsheim, Germany	Pharma Lab / Demo plant, 120 m ²	2004	2
Eli Lilly & Co Speke		Liverpool, Great Britain		2004	29
Eli Lilly & Co		Indianapolis IN, USA	Biotech API facility, 11400 m ²	2004	192
Eli Lilly del Caribe		Carolina Puerto Rico	Biopharmaceutical API Facility, 20 000 m ²	2003	280

Reference List – Pharmaceutical Projects

Emtunga & AFRY joint projects

End Client	Country	Description	Year	No. of Modules
N.N.	Sweden	Ethanol Solvent Recovery Facility	2020-Present	3
N.N.	Sweden	Cooling & Heating Capacity	2021	-
N.N.	Sweden	2-MCH and Acetone Recovery Facility	2021-Present	16
Norwegian Directorate of Health	Norway	Feasibility study – analysis focus on both the economical prerequisites of, and technical aspects for establishing an antibiotic production in Norway	2021-Present	-

Reference List – Tailormade Pharmaceutical Facilities

External projects with Emtunga personnel in leading project roles

End Client	Client	Country	Description	Year	No. of Modules
N.N.	External part	Cuba	Biotech + Fill Finish plant, 3900 m ²	2018-2020	76
N.N.	External part	Germany/ Indonesia	Manufacturing Facility	2018	2
N.N.	External part	Sweden	Capacity upgrade Biotech API manufacturing facility	2018	Stickbuilt
N.N.	External part	Saudi Arabia	Fill Finish plant	2017-2018	12

Glaxo Smith Kline Bio, Hamilton USA Biotech MPL Expansion Facility



DELIVERED **2006**



56 MODULES



2 800 m²



24 MONTHS



MT, USA



BIOTECH API

PROJECT DETAILS

CLIENT: GSK Bio, Hamilton Montana, USA

SCOPE OF DELIVERY: The work included all activities from basic design, fabrication, equipment procurement, and site assembly to operational qualification.

FACILITY SCOPE: A turnkey delivery of a Biotech API facility of 2800 m² (56 modules) for production of MPL vaccine adjuvant.

DELIVERY MODEL: Module delivery from Sweden. Engineering from our offices in Sweden. Fabrication of Module Sections in Vara, Sweden. Assembly direct on site in Montana, USA. Pharmadule Emtunga's site team supported the installation and performed commissioning of a fully integrated and functional Biotech API facility.

PROJECT DELIVERY: Delivered as part of Pharmadule Emtunga AB

Merck & Co, Durham USA

Aseptic Filling and Lyophilization Facility



DELIVERED **2005**



114 MODULES



6000 m²



24 MONTHS



NC, USA



FILL FINISH

PROJECT DETAILS

CLIENT: Merck & Co, Durham NC, USA

SCOPE OF DELIVERY: All activities from basic design, fabrication, equipment procurement, and site assembly to operational qualification.

FACILITY SCOPE: Aseptic filling and lyophilization facility of 6000 m². (114 modules).

DELIVERY MODEL: Module delivery from Sweden. Engineering from our offices in Sweden. Fabrication of Module Sections in Vara, Sweden. Assembly direct on site in Durham, USA. Pharmadule Emtunga's site team supported the installation and performed commissioning of a fully integrated and functional aseptic filling and lyophilization facility.

PROJECT DELIVERY: Delivered as part of Pharmadule Emtunga AB

Eli Lilly & Co, Indianapolis USA Biotech API Facility



DELIVERED **2004**

	192 MODULES
	11 400 m²
	36 MONTHS
	IN, USA
	BIOTECH API

PROJECT DETAILS

CLIENT: Eli Lilly & Co, Indianapolis USA

SCOPE OF DELIVERY: All activities from basic design, fabrication, equipment procurement, and site assembly to operational qualification.

FACILITY SCOPE: Biotech API facility of 11 400 m² (192 modules), pilot plant for clinical trials production.

DELIVERY MODEL: Module delivery from Sweden. Engineering from our offices in Sweden. Fabrication of Module Sections in Vara, Sweden. Assembly direct on site in Indianapolis, USA. Pharmadule Emtunga's site team supported the installation and performed commissioning of a fully integrated and functional biotech API facility.

PROJECT DELIVERY: Delivered as part of Pharmadule Emtunga AB

Eli Lilly & Co, Puerto Rico Purification Facility



DELIVERED **2004**



280 MODULES



20 000 m²



24 MONTHS



PUERTO RICO



PURIFICATION

PROJECT DETAILS

CLIENT: Eli Lilly & Co, Puerto Rico

SCOPE OF DELIVERY: The work included all activities from basic design, fabrication, equipment procurement, and site assembly to operational qualification.

FACILITY SCOPE: A turnkey delivery of a purification facility of 20000 m² (280 modules) incl. buffer preparation, purification and vacuum drying, chromatography, ultrafiltration, high containment, and bulk filling in refrigerated area. The facility was designed for a seismic zone 3.

DELIVERY MODEL: Module delivery from Sweden. Engineering from our offices in Sweden. Fabrication of Module Sections in Gothenburg, Sweden. Assembly direct on site in Carolina, Puerto Rico. Pharmadule Emtunga's site team supported the installation and performed commissioning of a fully integrated and functional purification facility.

PROJECT DELIVERY: Delivered as part of Pharmadule Emtunga AB



Merck & Co, Singapore OSD Facility



DELIVERED **2000**

	42 MODULES
	3 000 m²
	24 MONTHS
	SINGAPORE
	OSD FACILITY

PROJECT DETAILS

CLIENT: Merck & Co, Singapore

SCOPE OF DELIVERY: All activities from basic design, fabrication, equipment procurement, and site assembly to operational qualification. The modular facility was assembled and fully commissioned in workshop prior to shipping to Singapore for rapid handover for operation.

FACILITY SCOPE: A greenfield project for a high share oral solid dosage facility of 3000 m² (42 modules).

DELIVERY MODEL: Module delivery from Sweden. Engineering from our offices in Sweden. Fabrication of Module Sections in Vara, Sweden. Assembly direct on site in Singapore. Pharmadule Emtunga's site team supported the installation and performed commissioning of a fully integrated and functional OSD facility.

PROJECT DELIVERY: Delivered as part of Pharmadule Emtunga AB

Want to know more?

Visit www.emtunga.com for more information about our services and for how to get in touch with us.