



Equipment & Capabilities



All types of equipment - almost

Galenica - A valuable business partner



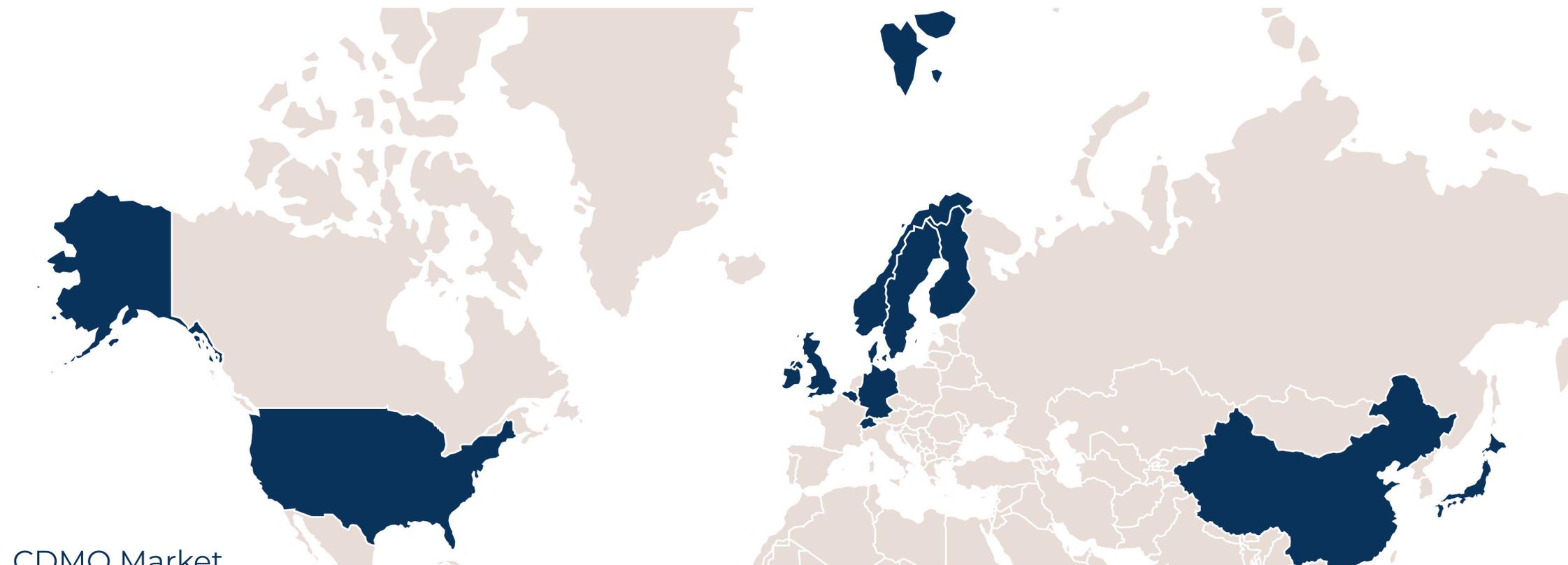
Galenica supports pharmaceutical companies in their **development programs** across the entire development chain from **early development to GMP-manufacturing and packaging**.

In total Galenica offers more than **50 different types of process equipment and instruments** for development of all common pharmaceutical dosage forms.

Galenica's **core competence** is pharmaceutical development. We are experts at pharmaceutical and analytical development/validation, production of **Clinical Trial Material (CTM) for Phase I – III** and **small scale commercial production**.

We have **manufacturing facilities** for production of clinical trial material of all commonly used **liquid, semi-solid and solid dosage forms**.

Galenica is **audited and authorised by the Swedish Medical Product Agency** for the GMP-production of clinical trial material as well as labelling/packaging and QC testing.



Dosage forms

Formulation and process development of various dosage forms

SEGMENT	DOSAGE FORMS	ROUTE OF ADMINISTRATION
SOLIDS	Tablets, Immediate Release (IR) Tablets, Controlled/Modified Release (CR/CM) Minitablets Oral Disintegrating Tablets (ODT) Capsules, Immediate Release (IR) Capsules, Controlled/Modified Release (CR/CM) Capsules, Sprinkled Lozenges Medicated Chewing Gum Pellets Granules	Oral
SOLIDS	Powders	Pulmonary / Oral / Nasal
SEMI-SOLIDS	Creams Lotions Ointments Gels	Topical / Rectal / Vaginal
SEMI-SOLIDS	Suppositories	Rectal
LIQUIDS	Solutions Emulsions Suspensions Sprays	Oral / Pulmonary / Nasal / Topical



Equipment list - Solid Dosage Forms

Base equipment for solid dosage forms



OPERATION	UNIT	BRAND	CAPACITY
Mixing/ Blending	Shaker mixer 3D Planetary mixer Double cone mixer	Turbula mixer, T2F, T10B Kenwood mixer Sewin, DKB-50-45-BCR	Up to 17L 2L 25L, 50L, 150L
Granulation	High shear mixer Extruder/spheronizer Compactor	Diosna P1-6 Donsmark QMM-II Caleva System e20/MBS Vector TFC Micro-Lab	1L, 4L 1L, 5L 150 g - 1.5 kg 20 - 250 g/h
Milling	Conical mill Ball mill Jet mill	Quadro Comill U5, U10 Retsch MM2000 TeknoProg	50 - 150 kg/h, >500 kg/h 50 ml/batch
Tablet Compression	Rotary tablet press Eccenter press	Fette 52i (instrumented) RoTab (instrumented) Manesty Betapress Korsch EK0	40 000 units/h B/D tooling 90 000 units/h B/D tooling
Powder filling	Capsule filling machine Powder dosator	Dott Bonapace In-Cap MG2 Flexalab Perry filler LM14 Profill systems	Up to 3 000 units/h Up to 3 500 units/h 100 units/turn
Coating	Fluid bed Pan coater	Vector FL-M-1 Kugelcoater O'Hara	Up to 2 kg Up to 0.5 kg 12", 17", 19" (8 kg)
Spray drying		Buchi Mini Spray Dryer B-191	
Packaging	Blister Tablet counter Capping	Klöckner Pentapack EAS Dott Bonapace CTE-6 Flexicon FF30	3 000 units/min



Equipment list - Semi-Solid Dosage Forms

Base equipment for semi-solid dosage forms



OPERATION	UNIT	BRAND	CAPACITY
Mixing	Homogenizer	IKA Ultra Turrax T25 Polytron PT-MR3000	10 mL - 2L
Mixing	Processing unit	Ekato Unimix LM3 Krieger Multiprocessor MMU-20	3L 30L
Dosator/ sealing	Dosator Tube sealer, Plastic Tube sealer, Metal Suppositories	Telfafill TF5500 Fermant Axo metal tube crimp Erweka AR400	1mL - 100L



Equipment list - Liquid Dosage Forms

Base equipment for liquid dosage forms

OPERATION	UNIT	BRAND	CAPACITY
Mixing/ Blending	Overhead stirrer Homogenizer	IKA Eurostar Digital IKA RW 47D IKA Ultra Turrax T25	Up to 100L Up to 200L 10 mL - 2L
Wet-milling/ dispersing	High pressure homogenizer	IKA Magic Lab, UTL, DR, MK0 Avestin Emulsiflex C50	1L, 2L 15 - 50 L/h
pMDI	Pressurized canister dosator	Solmatic PT-52, PT-53	Up to 20 units/min



Analytical Services

Equipment & Capabilities



Our **state-of-the-art analytical laboratory** is designed to meet the extensive quality requirements of the pharmaceutical industry. We offer comprehensive support in **analytical testing, method development, and validation** across a wide range of dosage forms.

Whether your project requires quick, iterative exploratory work, high-level scientific studies, or full GMP-compliant analytical services, we adapt to your needs at every stage — always with an unwavering commitment to data quality and scientific integrity.

Service Scope

Wide range of analytical capabilities

- **Method Development & Validation:** Creating robust analytical methods tailored to development phase and project-specific requirements.
- **Scientific or Explorative studies:** To develop deeper knowledge and understanding about constituents, formulations or finished product.
- **Quality Control & Release Testing:** Comprehensive testing for raw materials, intermediates, and finished products.
- **Stability Studies:** Ongoing stability assessments under ICH conditions to ensure product shelf life and quality.
- **Regulatory Support:** Preparation of data and documentation suitable for regulatory submissions (e.g., EMA, FDA).

With this **broad portfolio of analytical capabilities**, we can support projects throughout the entire drug development lifecycle — from early formulation stages to final product release.



Equipment list - Analytical capabilities

Analytical excellence for modern drug development



CAPABILITY AREA	KEY EQUIPMENT	OUR EXPERTISE
Chromatographic Analysis	HPLC/UPLC (UV, DAD, Fluorescence, ELSD, RI, MS)	Quantitative and qualitative analysis of active substances, excipients, and finished products. Development, validation, and stability-indicating methods.
Dissolution & Permeation Studies	Dissolution Apparatus 1, 2, 5 Enhancer Cells: Franz and Automated Diffusion Cell Systems Intrinsic dissolution	Performance testing of tablets, capsules, and transdermal systems. In vitro release testing (IVRT) and in vitro permeation testing (IVPT) for semi-solids.
Inhalation Product Testing	Next Generation Impactor (NGI)	Particle size distribution analysis for inhalation products to support bioequivalence, quality control and regulatory submissions.
Rheology & Viscosity Analysis	Rheometers Viscometers	Characterisation of flow properties and viscoelastic behaviour for liquids, gels, and semi-solid formulations.
Particle & Physical Characterisation	Texture Analyser Laser Diffraction Particle Size Analyser Light Microscope Turbiscanner	Mechanical testing of solids/semi-solids, particle size distribution, morphology analysis and stability studies.
Spectroscopy & Chemical Analysis	UV-Vis Spectrophotometer FTIR Spectrometer Turbidimeter Wet Chemistry (Titration, etc.)	Identification and quantification of active substances and excipients. Turbidity and characterisation.
Osmolality & Water Activity Testing	Osmometer Water Activity Meter	Determination of osmolality for parenteral preparations and solutions. Water activity testing for microbiological and stability control.
Moisture & Mechanical Testing	Karl Fischer Titrator (volumetric) Disintegration Tester Friabilator Hardness Tester	Determination of water content in raw materials and finished products. Mechanical strength and disintegration testing of solid dosage forms.
Stability Testing Infrastructure	Climate Cabinets Refrigerators/Freezers Heating Cabinets	Controlled environmental chambers for ICH stability studies. Custom storage conditions for products requiring specialised handling.



Formulation Development

Analytical Development

CTM Manufacturing, packaging and labelling

Galénica AB

Medeon Science Park
P A Hanssons väg 41
Malmö, Sweden

Visit www.galenica.se

