

API/cGMP Manufacturing

Development, Upscaling and Production of API in FDA-inspected cGMP equipment. ISO 9001 / 14001 Certification. SwissMedic Approval. Five Clean Rooms class 100'000.

Organometallic and Cryogenic Chemistry

Grignards, Organolithium chemistry, Boronic acids, Organozinc chemistry, other Low-temperature reactions down to -90 °C in up to 2500 L Reactors.

Rapid Process Development, Flawless Upscaling, and Economy of Scale-Production

Cooperation with Solvias for catalytic process development (> 700 chiral ligands). Swiss Precision in Upscaling. Availability of up to 10,000 L Reactors. Waste Water Treatment Plant, Offgas Treatment by Catalytic Oxidation and Biofilter Systems. Cryogenic and High-Pressure Equipment.

Transition-Metal Catalysis

Homogeneous and heterogeneous Transition-Metal Catalysis. Special methods for Reduction of Platinum metal contents below 10 ppm levels. Suzuki-, Heck-, Kumada-, C,N- and other Couplings.

Functional Polymers

Polycondensations, Polymer Modifications, Radical and Controlled Radical Polymerisations (Atom-Transfer Radical Polymerisations, ATRP) for High-Performance Polymers.

High-Pressure Hydrogenations and Carbonylations

Hydrogenations and Carbonylations at up to 64 bar. Very high pH flexibility due to Inconel hydrogenation equipment up to 4000 L. Asymmetric hydrogenations.

Solids Handling

Isolation, Handling and Drying Equipment for Solids in Hastelloy and Stainless Steel: Inverting filter Centrifuges, stirred Pressure filters, Filter press, Vacuum paddle dryers, Nutche filter dryers, Fluidized bed dryer, Spin flash dryer, Spray dryer, Vacuum tray dryers, Air jet mill.

Heterocyclic, Hazardous and Malodorous Chemistry

Hydrazine Hydrate, Cyanides, Dialkylsulfates, Nitrations, Alkylolithiums, Hydrogen Peroxide, Alkyl- and Arylthiols, Nitromethane, Bromine, ...

Enzymatic Chemistry and Enantiomerically Pure Products

Cooperation with evocatal. Available Enzyme Families: Alcohol Dehydrogenases, Transaminases, Lipases/Esterases, Hydroxynitrile Lyases, C,C Coupling Enzymes, ...