

Reference Substances – Customized for Individual Analytical Processes



solvias 

Reference Substances – Customized for All Individual Analytical Processes

As a one-stop service provider with many years of experience in research and industry, we are your partner for customized reference substances. We can provide comprehensive, individually tailored support for all your analytical processes, whether for identity testing or for the quantitative analysis of active substances, intermediates, by-products and degradation products.

Solvias – your reliable partner for custom-tailored solutions

Reliable reference substances make a crucial contribution to the accuracy of the analytical results for chemical and pharmaceutical products. As your competent and reliable partner, we can help by providing you with individual reference substances which are suitable for the intended use. This provides you with security in official audits and for the registration of your products.

You can benefit from our comprehensive, modular range of services from a single source – structural elucidation, isolation, purification, characterization, synthesis design, contract synthesis, certification/re-certification, documentation, packaging, storage and world-wide supply. Use our strengths to your advantage.

- Unique and varied range of methods and broad spectrum of services for individually matched, customer-specific solutions
- Decades of experience in the synthesis and analysis of highly active, cytostatic, photosensitive and complex compounds
- Considerable flexibility and capacity in synthesis development and contract synthesis of multi-stage asymmetrical compounds
- Modern infrastructure: kilo laboratory; safety boxes for fluorination, carbonylation, high-pressure and hydration reactions; special laboratories for photosensitive and for cytotoxic compounds
- Preparative isolation and purification techniques from μg to kg scale (chromatography, crystallization)
- Unique range of physico-chemical, analytical and spectroscopic methods for characterization
- Greater efficiency as a result of synthesis, purification and analysis from a single source
- Problem-focused consulting on certification issues and on establishing of individual test protocols
- Comprehensive project management and co-ordination due to global network of expertise and experience



1 Sample concentration in a nitrogen stream



2 Liquid chromatography



3 GC-headspace autosampler



Solvias – your supplier with officially recognized expertise

As a world-wide supplier to the chemical and pharmaceutical industry, we not only possess the necessary experience but also officially recognized expertise in the manufacture, certification, characterization and documentation of customized reference substances.

- cGMP recognition by the FDA, CFN: 9617363
- cGMP-approved by Swissmedic for chemical, physical, biochemical and microbiological analysis of medicinal products
- GLP-certified test facility
- Certified according to ISO 9001

Solvias – Our Wide Spectrum of Services

Solvias – your partner for individual customer-specific solutions

Synthesis

- Manufacture and supply of primary and secondary reference substances
- Establishment of customer-specific working standards
- Synthesis design – innovative production of individual, complex reference substances in various quantity units
- Contract synthesis – manufacture of customer-specific reference substances according to a specified synthesis schedule (mg to kg)
- Preparation of seed crystals with defined polymorphic structure
- Manufacture, analysis and packaging of photosensitive, deuterated, cytotoxic and polymorph forms of reference substances

Enrichment, isolation and purification

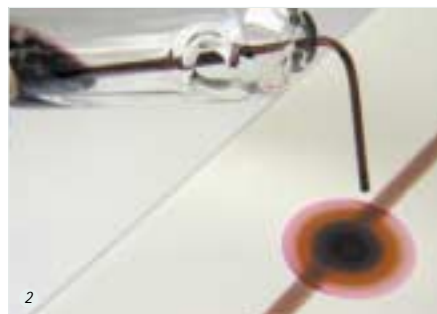
- Enrichment of impurities and by-products through crystallization, distillation, extraction, chromatography
- Preparative chromatography (isolation and purification) from the analytical to preparative scale on various stationary phases (with TLC, LC, HPLC)
- Isolation of asymmetrical compounds (enantiomers)

Characterization, certification and re-certification

- Analytical and spectroscopic characterization of active substances, including protein therapeutics, by-products and degradation products
- Structural elucidation and confirmation of unknown compounds using spectroscopic and coupled techniques (NMR, Raman and infrared spectroscopy; mass spectrometry; LC-MS, GC-MS, GC-IR, TG-FTIR)
- Analytical and physico-chemical investigations for certifications and re-certifications
- Method development and validation

Packaging, storage and shipping

- Packaging under inert gas atmosphere and with exclusion of light
- Functional packaging – containers with tamper-proof screw caps
- Packaging of small quantities (vials, ampoules)
- Stability testing and monitoring of your stored compounds
- World-wide supply and on-demand delivery of your specific reference substances
- Temperature-monitored, restricted-access warehouse



1 Lyophilizer in the amber light laboratory (for photosensitive compounds)

2 Application device for preparative layer chromatography

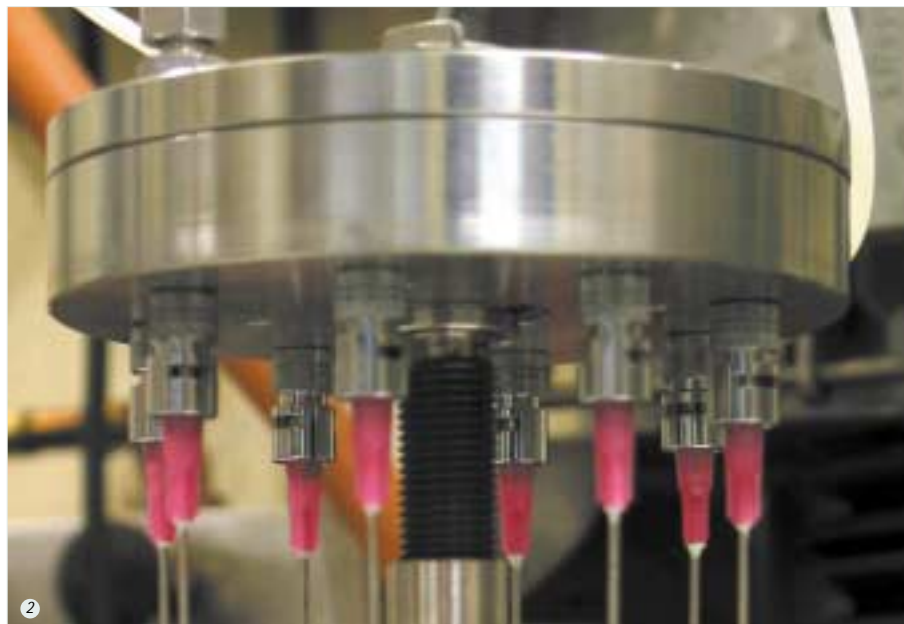
3 Crude material obtained from synthesis

Solvias – Your Partner for Individual Custom-Tailored Solutions for Synthesis Processes



1

1 20-liter distillation apparatus

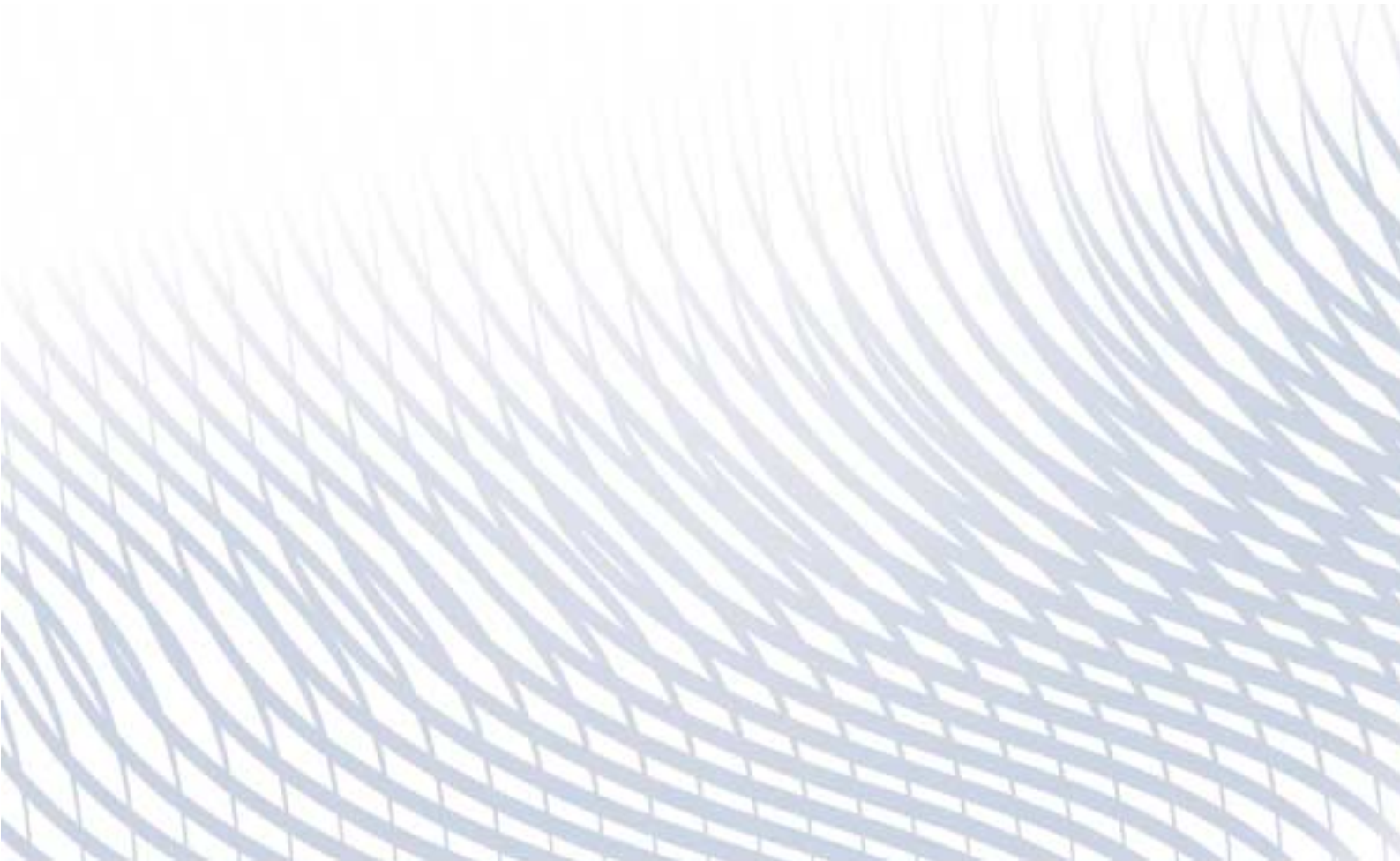


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2 High-pressure parallel reactor

Solvias reference substances – highly efficient and customer-oriented

- Customized reference substances for individual identity tests and quantitative assays in all analytical processes
- Certification services matched to specific needs and desired applications
- Unusually wide range of methods for analytical and physico-chemical certification/re-certification, including professional documentation for reliable acceptance by the authorities
- Cost-effective co-ordination – synthesis, purification and analysis from a single source
- Unique know-how for the synthesis development of nucleosides, heterocycles (natural substances) and asymmetrical, deuterated and cytotoxic molecules
- Innovative problem-solving strategies in the synthesis design of chemoselective, regioselective, stereoselective or enantioselective molecules
- Efficient manufacture of compounds due to access to our catalysis know-how and over 200 ligands with approved applications
- Savings in time, labor and costs – no need to develop special analytical techniques in-house or set up a separate synthesis laboratory; no protracted, cost-intensive learning phase
- Saving of resources due to access to special laboratories and technologies for fluorinations, carbonylations, decarbonylations, hydroformylations, Suzuki aryl-aryl couplings, Buchwald-Hartwig aminations, Heck-type arylations, CI-CN exchange reactions
- Reliability in the production of your active substances due to the use of characterized seed crystals of desired polymorphic form
- Substances supplied in various quantity units and containers (bulk filling, vials, ampoules) for every-day laboratory needs – no contamination, less administration, no additional testing necessary
- Simple on-demand delivery of your reference substances (from the warehouse), including an up-to-date certificate of analysis
- World-wide, rapid, reliable delivery adapted to the needs of the customer



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