

Next-Gen Sequencing

Transform sequencing data into actionable insights that support product development and regulatory submissions

NGS generates vast amounts of genetic information, but sequencing alone rarely provides the answers pharmaceutical developers need. At Solvias, we combine advanced sequencing technologies, sophisticated bioinformatics, and deep expertise in biologics and cell and gene therapies to transform sequencing data into actionable insights that support product development, cGMP quality control, and regulatory submissions.

Viral Safety Testing

NGS enables comprehensive, animal-free viral safety testing, replacing multiple virus-specific assays with a single test detecting both DNA and RNA viruses with exceptional sensitivity and speed. At Solvias, we combine it with advanced bioinformatics, experienced virology scientists, and more than **1 million hybridization probes** targeting complete viral genomes across more than **2,500 viral species** and **15,000 viral strains** to support reliable detection of true viral contamination, helping sponsors avoid unnecessary investigations, accelerate product release, and maintain confidence in product safety.

Cell Bank Characterization & Quality Control

NGS provides comprehensive genetic characterization, including the detection of sequence variants, structural rearrangements, and integration events. Combining NGS with our proprietary Target Locus Amplification (TLA) technology enables targeted, faster, and cost-effective analysis of integration sites and off-target events. Droplet digital PCR (ddPCR) complements these capabilities with copy number determination.

- ☑ Integration sites
- ☑ Structural variants
- ☑ Co-integrations
- ☑ Single nucleotide variants
- ☑ Indels
- ☑ Rearrangements
- ☑ Concatemers
- ☑ Copy number

Plasmid, Viral Vector, & RNA Identity Testing

Solvias NGS-based approach provides high-resolution identity confirmation of plasmid constructs, viral vectors, and RNA products through complete sequence verification, detection of sequence variants, and assessment of genetic fidelity, supporting research, process development, manufacturing, and quality control.

Bioinformatics Services

Our bioinformatics scientists transform raw sequencing output into clear, scientifically sound conclusions that support product development and regulatory submissions. From routine data analysis to complex, bespoke bioinformatics solutions, we tailor our services to each customer's specific needs. Our capabilities include:

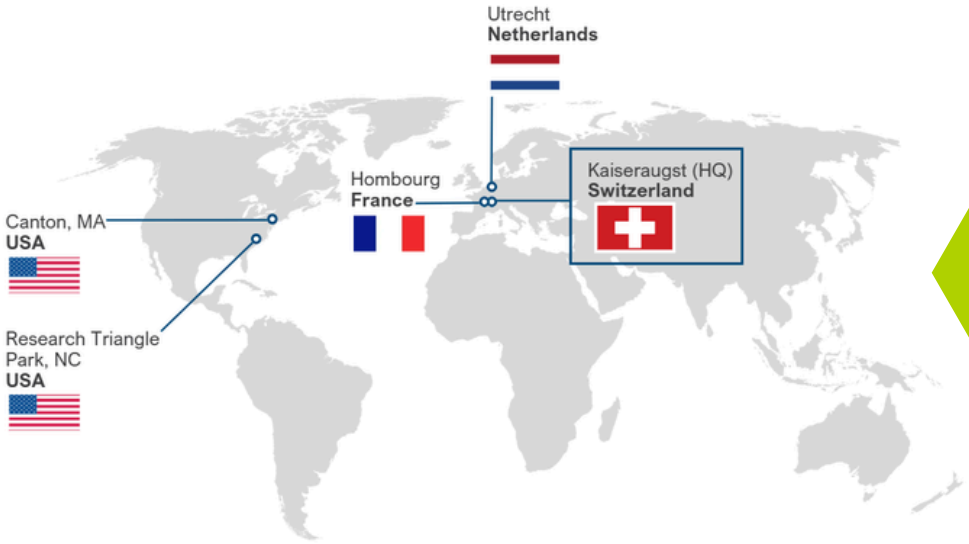
- ☑ Bioinformatic analysis of client-generated NGS datasets
- ☑ Custom database creation and BLAST analysis
- ☑ Custom algorithm development

Method Development, Transfer & Validation

Solvias develops customized NGS assays tailored to each project's scientific objectives, from early research through regulated GMP environments. Our services include feasibility, assay development, optimization, transfer, GMP validation, and validation of customer-transferred methods, ensuring analytical procedures remain fit for purpose throughout the product lifecycle.

Why partner with us?

- CRO
- Founded in 1999
- 800+ team members
- 175+ PhD-level scientists
- GMP, GLP, ISO9001 certified
- 23K m^2 of lab capacity
- 700+ customers worldwide
- 5 centers of excellence



Contact us to speak with an expert: info@solvias.com

solvias.com

solvias

A091126

©2026 Solvias AG. All rights reserved.