Agilent SLIMS
Manage your lab data in one place
What is Agilent SLIMS?

Agilent SLIMS combines a laboratory information management system (LIMS) and electronic laboratory notebook (ELN) in a single system, enabling comprehensive workflow management. SLIMS is flexible and configurable, helping you increase your lab’s productivity. The system is designed to support the requirements of ISO17025, 21 CFR Part 11, HIPAA, and CLIA.

Enhancing the Everyday Life of Labs

**Easy integration**
SLIMS generates the sample sheet and returns results for many NGS sequencing machines (such as BGI, and others), QC machines (such as Agilent TapeStation, Fragment Analyzer, and Bioanalyzer systems), analytical instruments including LC, GC, MS, ICP, and Chromatography Data Systems (CDS) systems such as Agilent OpenLab CDS and others. It can also be connected to other Agilent and non-Agilent laboratory software systems, SAP, and bioinformatics platforms. SLIMS fully interfaces your instruments and software. It features three APIs (REST, Java, and Python), which allow communication with third-party systems.

**Time-saving SLIMS Store**
When installed, SLIMS is ready to adapted to your lab. The SLIMS Store maintains a collection of preconfigured packages that are ready to install and will get you fully functional quickly. Additionally, you can customize any of the packages after they are installed in your SLIMS deployment.

**Flexible deployment**
SLIMS offers flexible installation options, deploying to either a virtual or physical server. Using Amazon’s ECS technology, SLIMS can be used in the cloud on a scalable, powerful, secure virtual server—or installed on a server within your IT infrastructure.

**Multiple features**
SLIMS includes features and modules that can be tailored to meet the needs of your lab.

**Sample management**
- Digitally track samples and retain lineages
- Record results for reporting
- Maintain data integrity

**Dashboard**
- Display graphs, tables, and text on one screen
- Access different parts of system simultaneously
- Use shortcuts to simplify repetitive tasks

**Workflows**
- Visualize workflows with Workflow Management module

**Electronic laboratory notebook**
- Replace paper lab book with electronic record
- Organize experiments by project name and create SOPs
- Connect sample and reagent information with test results
- Add lab notes and attachments

**Order management**
- Provide access to track orders
- Create, manage, and monitor test requests
- Review and validate results

Domains
SLIMS can be applied within various fields to facilitate data collection and record keeping, improving reproducibility and compliance and streamlining processes.

**Analytical**
- Track complete request lifecycle from analysis to results
- Use SOPs to generate and follow worklists
- Provide product specification testing management
- Integrate with chromatography data systems

**Research**
- Take notes interactively and follow workflow steps
- Flexibly manage protocol features
- Integrate sample data, experiments, users, and more
- Optimize sample repository management

**NGS**
- Pool libraries and assign lanes
- Design NGS plates with drag-and-drop functionality
- Track external barcodes or assign plate layout indexes
- Export sample sheets directly to integrated sequencers

**Biobanks**
- Automate external lab instruments
- Design complete, detailed studies
- Collect, schedule, and send samples to workflows
- Register subjects and restrict personal data access

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Further reading
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