Agilent SLIMS for Biobanks

From start to finish, we’ve got you covered.
Biobanks play a crucial role in medical research by having robust and even rare biospecimen samples readily available for clinical studies. As biobanks continue to collect samples from a growing number of sources and may store them for both short- and long-term tenures, the need for implementing a digital solution that copes with the requirements and procedures for consistent operations is obvious. With SLIMS, Agilent provides a comprehensive software solution that manages and tracks all biobank samples over their entire lifetime. This includes quality control measures to be taken during sample collection, prior to sample accession, and upon use of the sample, to ensure biological material and data collections of the highest quality possible.

ISO 20387:2018 specifies general requirements for the competence, impartiality, and consistent operation of biobanks including quality control requirements to ensure biological material and data collections of appropriate quality.

SLIMS guides you through the process execution for extracting and isolating the genetic material from the specimen and maintain all derivations you create from a sample, all while preserving the entire sample chain of custody.

SLIMS brings a consistent, holistic approach to managing your lab’s biospecimen samples and their related data, improving the quality of research and the reliability of results.

Adjust to your needs
With a flexible data model that captures all the relevant metadata, and a workflow module that meets the complexity of your procedures, SLIMS will fit to the needs of your lab.

Track information end-to-end
SLIMS modernizes the management of your biobank samples, procedures, and results. Your lab personnel are guided through the procedures and can collaborate naturally. SLIMS makes data instantly accessible to authorized lab personnel, and managers, even remotely.

Streamline data management
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I need: Quick and easy overview of sample, status, workflows, and storage locations
SLIMS

I need: Full-scale chain of custody
SLIMS

I need: Study design for multi-studies support
SLIMS

I need: Longitudinal studies with different collection time points
SLIMS

I need: Searchable with customized exports, and reports
SLIMS

I need: Highly adaptable environment, compatible with the cloud
SLIMS

I need: Supports ISO 20387:2018 requirements, ISBER recommendations, and SPREC nomenclature
SLIMS

Did you know?
Standard PREanalytical Code (SPREC) is a seven-element code corresponding to the most critical preanalytical variables of fluid and solid biospecimens. SLIMS captures these critical preanalytical data points as specimens are processed and stored. The SPREC is displayed in the specimen details, allowing full traceability and documentation for downstream analysis.


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SLIMS features comprehensive location and storage management and tracks all storage parameters and analytical variables that need to be considered and may impact the quality of the samples. This includes every step starting with method of collection, the used labware, the turnaround time, handling, extraction methods, and temperature, transportation conditions, and final storage conditions.

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Our SLIMS engineers are the real subject matter experts in science and laboratory informatics. They understand your domain and your workflows. They have deployed many solutions for labs across the globe and will assist you during the different phases of the project with installation, training, validation, and adjustment of the software to your needs.

SLIMS offers flexible installation options. It can be hosted by Agilent on a scalable, powerful, secure server, or by your favorite cloud service provider. The system can also be installed on a server within your IT infrastructure. SLIMS only needs a web browser, requires no further software on client computers, and can also be used on tablets.

When installed, SLIMS is ready to be adapted to your lab. Get a head start with the SLIMS Store and download premade configurations. Choose from a library of sample types, locations, metadata, automation snippets, and many more to make your solution operational as fast as possible. The biobank package supports a fast and efficient configuration of SLIMS to facilitate sample tracking in biobanks from subject registration to long-term storage.

SLIMS interfaces with all instrument types including the Agilent TapeStation, Bioanalyzer, and Fragment Analyzer systems to efficiently assess the sample integrity. SLIMS sends sample lists to the instrument software and imports the resulting quality metrics to the context of the relevant samples.

SLIMS provides shipping instructions and tracks all shipping events for you. Execute your quality control (QC) procedures in SLIMS and apply the best practices to determine the quality metrics during the sample life cycle. SLIMS facilitates reliable, compliant material traceability and assists users to find out if a particular sample was correctly handled prior to and during storage, to review who manipulated it, and even see freezer temperature changes over time.

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