



Watson LIMS software

Built for bioanalysis, trusted by industry leaders

Thermo Scientific™ Watson LIMS™ software has been widely recognized as the industry standard in bioanalytical support with over 8,000 users worldwide. It manages your bioanalytical data, creating efficiencies and promoting compliance for small- or large-molecule bioanalytical workflows for clinical and non-clinical studies. Watson LIMS enables complete traceability and control throughout your bioanalytical study, from initiation through study closeout, while enabling compliance and adherence to industry regulations.

For more than 20 years, Watson LIMS has helped bring thousands of drugs to market across the world. As the world leader in serving science, Thermo Fisher Scientific is committed to growing with the bioanalysis market and the continuous evolution of Watson LIMS software.

Power your bioanalytical workflows

Manage and build study designs

Upload sample manifests using templates with the aid of Import Study Protocol to reduce metadata transfer errors.

Maintain sample chain of custody

Record all sample shipments and monitor sample's movement, define storage locations down to plate position, and track freeze/thaw cycle and sample stability. Easily provide chain of custody records to auditors.

Ensure traceability throughout a study

Get complete study records and reports from study initiation through study closeout, including sample chain of custody, assay verification, and reconstruction events using the audit trail.

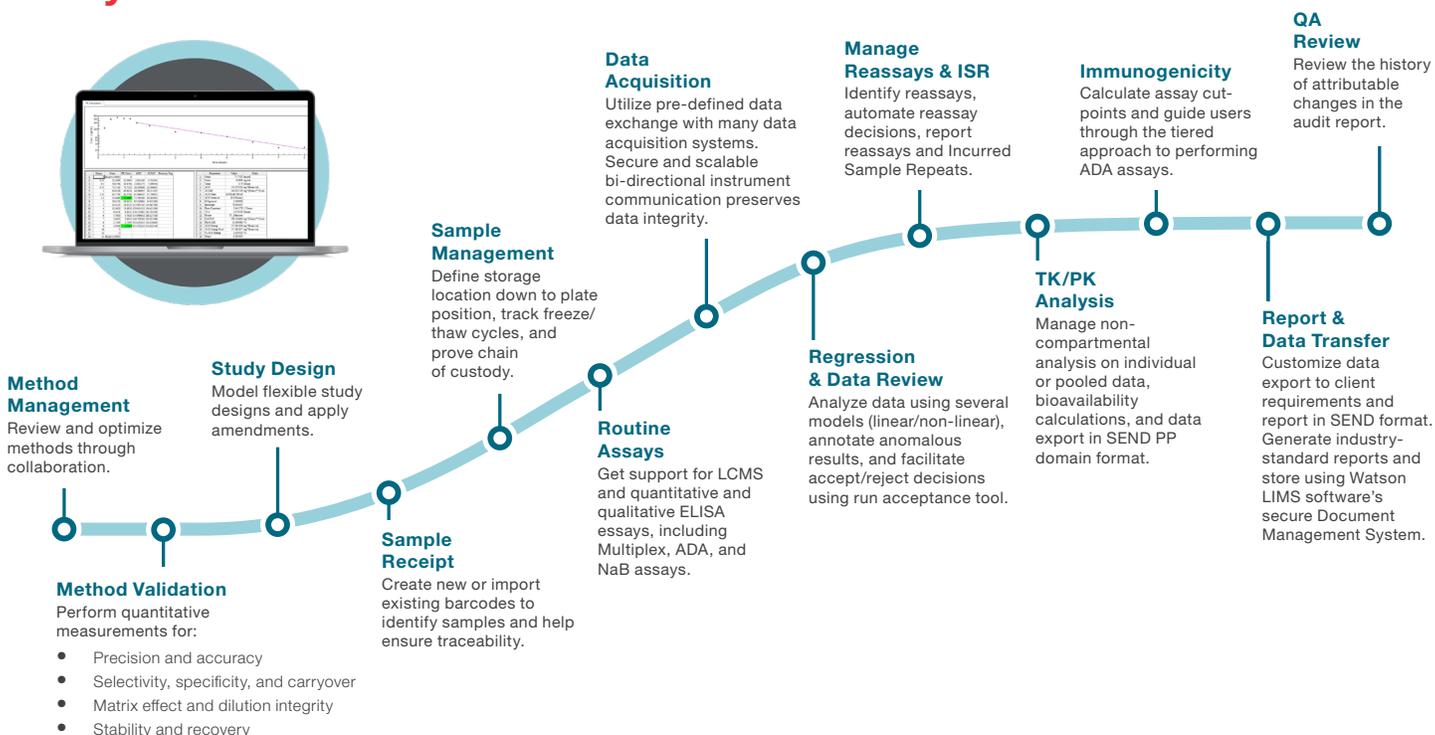
Connect lab instruments and software

Reduce the risk of manual transcription errors by automating data capture and management processes. Watson LIMS software integrates easily with instrumentation through established interfaces (e.g., SCIEX™ Analyst™ software).

Streamline method validation and sample analysis

Perform concentration evaluations to assess pharmacokinetics (PK) along with an assessment specific for anti-drug antibodies (ADA) assays. Set acceptance criteria and identify results that fall outside the expected range.

Manage your bioanalytical study from initiation to study archival



Execute efficient reporting and QA review

Generate a full study report including method validation experiments, assay performance, and study data. Report your data in CDISC, SEND, and SDTM formats to help streamline submissions.

Get built-in security and audit trail

Benefit from maximum flexibility and configurability while preserving data integrity. System and study access are granted to authorized, role-based users, in accordance with Good Laboratory Practices (GLP).

Simplify compliance

Generate study-specific labels that meet the necessary requirements. Implement storage facilities that include visible labels and barcodes for easy identification and traceability. This ensures compliance with 21 CFR Part 11, FDA Bioanalytical Method Validation, and EMA guidance to facilitate audits.

Streamline data processing and reporting

Easily generate a variety of graphs, tables, and statistical calculations from study data. Sort, find, filter, and reorder grid contents for a quick way to review a specific sample's data.

Minimize quality review time

Get real-time snapshots of data quality and easily transfer study data between sponsor and CRO using pre-defined assay performance and summary tables.

Standardizing processes

Watson LIMS software is ready to help manage bioanalytical studies, from initiation through archival, working to support industry and regulatory standards. The software was designed with a deep understanding of the bioanalytical workflow and regulations. Principal Investigators, scientists, and analysts are all able to move logically through each step in their workflow, simplifying bioanalytical support for nonclinical and clinical studies.

Compliance throughout the entire workflow

- The Reassay Decision Matrix and Run Acceptance Template assists users to comply with SOPs, reducing the risk of non-compliance. Decisions are automated according to pre-configured criteria, but allow the user to override when required.
- System and study access is granted to authorized users only. Role-based access ensures only authorized actions can be performed by users, in accordance with Good Laboratory Practices.
- The database stores audit trail records, which can be easily retrieved for review. These records outline all events that have been performed in the system. To facilitate an unambiguous and efficient review, a purpose-built audit records viewer is available, which enables categorizing and organizing audit events.
- Electronic signatures are designed to meet the requirements of 21 CFR Part 11 and record user identity, time/date stamp, and reason-for-save.
- Lockout/logout timers are configurable for periods of inactivity, requiring a user to reenter their username and password to regain system access.
- Watson LIMS software was designed to enable compliance with 21 CFR Part 58, FDA Bioanalytical Method Validation guidance documents, and EMA guidance documents.

Study design and sample management

Dynamic study design simplifies study setup with groups, treatments, and biological matrices, for both blinded and unblinded studies, as well as modeling the preclinical and clinical trial process. As bioanalytical studies evolve around real-world incidents, studies can easily be amended by adding or removing samples as required to reflect protocol amendments or unscheduled events. The Design Reconciliation feature also provides a way for Principal Investigators to document and correct sample manifest discrepancies all within one software system.

Compliance checks and audits are streamlined with the use of barcodes, which can be easily added from external sources or generated by the system. This allows for quick identification of samples, making the process more efficient. Location changes can be tracked using barcodes and electronic signatures. The product facilitates the creation of labels according to study requirements, and storage facilities can be displayed and barcoded to ease identification and traceability. The product also supports the use of 2D barcodes.

Analysts can quickly and easily move samples from a sample manifest into a new storage location. Principal Investigators can recreate the lifecycle of a sample in Watson LIMS software using various entities to see where the sample was stored, who handled the sample, and report freeze/thaw cycles, demonstrating a complete chain of custody from sample receipt to archival and disposal.

Pharmaceutical companies and CROs worldwide adopt Watson LIMS software as it provides a standardized way to work, ensuring seamless data collaboration and reporting.

Delivering value

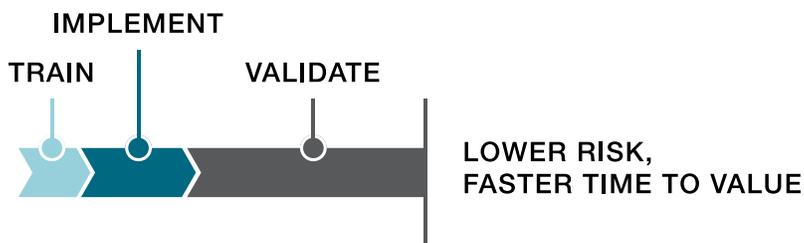
Fast implementation and expert support

Laboratories installing Watson LIMS software get more than just an industry-proven software package. Our team of experts not only understand the complex requirements of a bioanalytical lab, they also have the knowledge and experience required to ensure every implementation is a success.

Established processes and templates mean that customers are up and running far faster than you might expect. Our teams' extensive experience in risk-based validation approaches, as well as minimal product configuration serve as catalysts for faster time to value compared to custom-built solutions.

Realize value quickly with a purpose-built solution

- Implement and validate in half the time of a traditional analytical LIMS
- Eliminate customization and lengthy configuration
- Save time with documentation that is completed, tested, and ready to go
- Leverage a proven track record of successful implementations



Watson LIMS Software



Traditional Analytical LIMS

Streamlining method validation and data analysis

Watson LIMS software supports method validation of LCMS and ELISA assays, and analysis of ADA and NaB assays, allowing scientists to perform method validation and data analysis for many different assay types within one system.

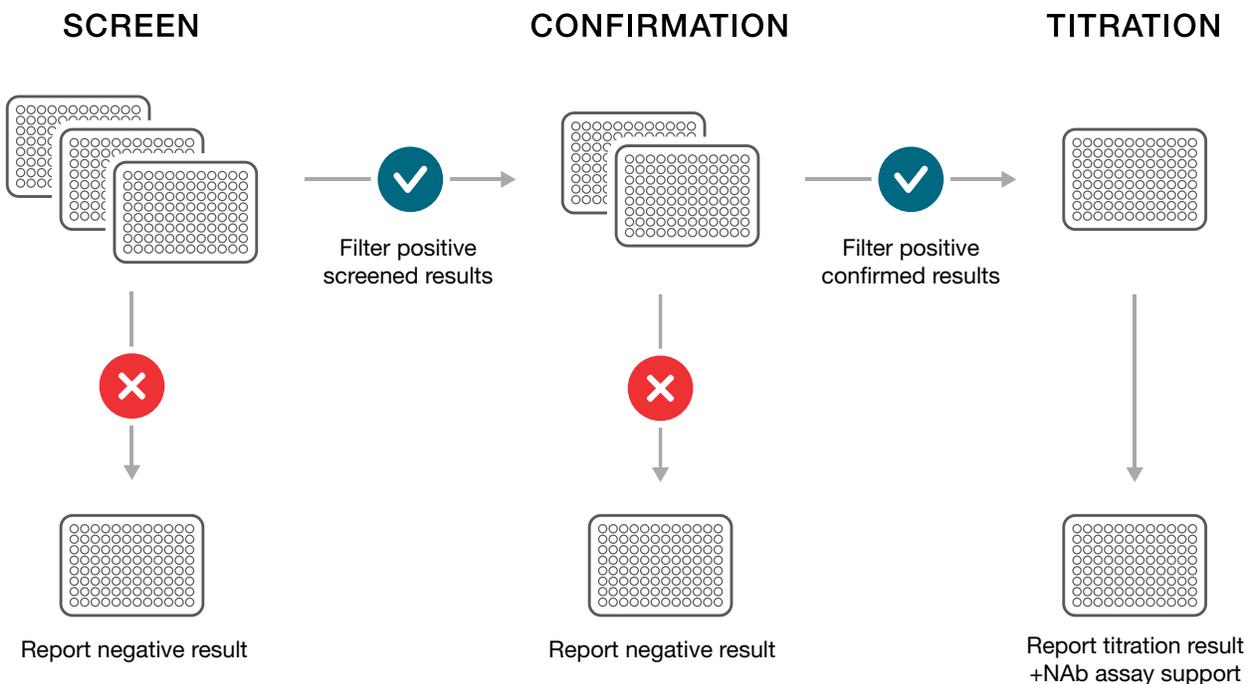
Method Validation support enables scientists to evaluate their methods for reliability and reproducibility. Predefined reports include precision and accuracy, specificity, selectivity, carryover, dilution integrity, stability (including benchtop, freeze/thaw and long-term stability), recovery and matrix effect.

The configurable **Run Acceptance Template** provides a tool to assess run performance against an SOP with defined acceptance criteria.

The integrated **Pharmacokinetics Module (PK)** allows the user to perform non-compartmental pharmacokinetic and toxicokinetic calculations within Watson LIMS software.

Enabling testing for immunogenicity

Immunogenicity assays protect patients from potentially harmful anti-drug antibodies and provide insights into neutralizing antibodies that may inhibit the biologic activity of a drug. The **Immune Response Module (IRM)** enables a tiered approach to performing immunogenicity assessments. IRM guides its users through the tiered approach of performing screening, confirmatory, and neutralizing assays. Scientists utilize the IRM to calculate assay cut-points, create automated flags for samples outside of the cut-point and to determine if there is a reactive sample. New study-level control reports include intra/inter-run statistics, flag limits, and cut-point values reported, providing valuable data in one location.



Reassays and ISR

Reassays can be queued both from the PK and IRM modules and on review of statistical study data. Results are linked to the original for comparison, including the reason for reassay and reanalysis. The user is easily able to view the impact of the reassay result on the overall data.

The **Reassay Decision Matrix** enables the user to create a graphical workflow, which emulates a decision tree defined in a reassay SOP.

Built-in calculations and configurable reporting support **Incurred Sample Reanalysis**. The report can be quickly and easily configured from a set template.

Watson LIMS has a built-in interface with numerous instrument software applications, including but not limited to:

- Thermo Scientific™ Xcalibur™ software
- Thermo Scientific™ Chromeleon™ CDS software
- Thermo Scientific™ TraceFinder™ software
- SCIEX Analyst software
- Waters™ Empower™ software

Instrument and system interfacing

Watson LIMS connects with other enterprise systems, instruments, equipment, and your customers, delivering increased compliance and productivity across your labs.

With an extensive library of bidirectional interfaces to commonly used bioanalytical instruments, no matter what hardware and equipment you use or might add to your lab in the future, Watson LIMS software can speak its language.

Once an analytical run has been acquired, the raw data is transferred from the data acquisition software back into the system for review and processing. Secure connections eliminate transcription errors and preserve data integrity.

Watson LIMS has file-based and/or IM interfacing with common instrument software, including but not limited to:

- Gyros™ Gyrolab™ Workstation
- Luminex™ platform
- Molecular Devices™ SoftMax Pro™ software
- MSD™ DISCOVERY WORKBENCH™ software
- MSD™ Methodical Mind™ software
- Quanterix™ Simoa™ technology
- Secure Open Standard File Transfer (SOFT)
- Shimadzu™ LabSolutions™ software
- Waters™ MassLynx™ software



Data processing and reports

Watson LIMS software's unrivaled data processing capability easily generates a variety of graphs, tables, and statistical calculations from study data. The software allows you to easily sort, find, filter, and reorder grid contents, enabling a quick way to review a particular sample's data. Watson LIMS also supports CDISC SEND and SDTM data standards.

Regression Analysis is centralized and automated supporting linear and non-linear models.

Considerable time is saved in collating and reporting results compared to other LIMS or laboratory data management solutions.

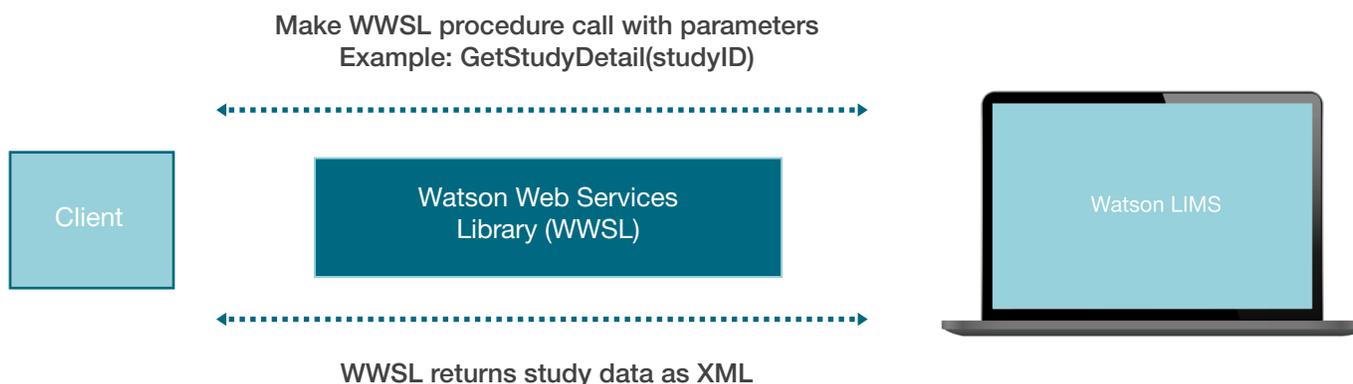
Quality review time is minimized using Watson LIMS software—the gallery of **pre-defined assay performance and summary tables** are a major benefit since the precision and accuracy of study data is very quickly demonstrated. Any new data added is automatically taken into account—providing a real-time snapshot of data quality. Standard data exchange enables easy transfer of study data between sponsor and CRO.

The powerful **Document Management System** enables you to select the documents, tables, and graphs to quickly build a full study report. All results, raw data, graphs, and reports are held in one database, which is controlled securely by user access and system roles.

Watson LIMS is now available to be hosted through the Thermo Fisher managed cloud.

Watson Web Services Library

The Watson Web Services Library (WWSL) is a mechanism that allows external systems to seamlessly interact with Watson LIMS using web service technology. This standard approach ensures secure communication through the use of the HTTPS transport protocol. With WWSL, data validation and audit trail generation are automatically handled for any data transferred into the Watson LIMS database. Supported procedures include, but are not limited to, importing study samples, creating analytes and projects, as well as updating study details, subjects, and treatments. WWSL streamlines the process of entering and retrieving information into the Watson LIMS database, providing a seamless integration solution for your lab.





A proven partner

Experience the power of partnering with Thermo Fisher to transform your bioanalytical challenges into strengths. With over 20 years of experience serving the bioanalytical community, Thermo Fisher possesses the regulatory acumen and domain expertise necessary to drive your success. Unlike the competition, we have the ability to tap into the bioanalytical expertise of our extensive network of over 125,000 colleagues, enabling us to deliver industry-trusted and reliable solutions that bring life-saving drugs to market.

Partner with Thermo Fisher to discover the full potential of your bioanalytical workflow management capabilities.

 Learn more at thermofisher.com/watson

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