

Laboratory software

Streamlining biorepository workflows with enhanced productivity

Biorepository Solution for SampleManager LIMS software

thermo scientific

Trusted in highly regulated environments worldwide

Biobanks are essential for the effective management and storage of critical scientific data. For pharmaceutical and biotech companies, diagnostic laboratories, and contract research organizations, maintaining specimen integrity is vital to delivering robust and reproducible results.

The Biorepository Solution for Thermo Scientific™ SampleManager™ LIMS Software serves as an implementation and validation accelerator, leveraging industry-standard features, expertise, and experience to expedite return on investment and mitigate project risks. It securely tracks and manages biological specimens and associated information for future research use. From sample collection and preparation to processing, storage, shipping, and disposal, the Biorepository Solution helps you achieve exceptional quality and traceability.

Laboratories can:

- Move and track samples individually or in mass groups
- Tag biorepository storage devices using hierarchical locations
- Manage the content and locations of plates and boxes
- Track location movements
- Create material requests and arrange shipments

Now available for small to large biobanks, the Biorepository Solution includes multiple dashboards to enhance ease of use and the visualization of assets and their contents.

Preconfigured capabilities

Optimize management of critical biological materials:

- Package reception and review
- Chain of custody and freeze/thaw cycle management
- Hierarchical location management to adapt to business demands
- Intuitive user workflows and barcode-driven processes
- Step-by-step sample relocation workflow
- Request and shipment management
- Material labeling
- Digital storage and documentation categorization at a sample level

Solution features

Save time while boosting productivity and efficiency:

- User-friendly workflows simplify adoption and reduce training requirements
- Streamlined operations help maintain high quality and stringent process adherence
- A step-by-step approach facilitates and automates bulk movements of materials, boxes, and plates between locations
- Seamless integration with the Biobanking Solution for SampleManager LIMS software encompasses reagents, consumables, equipment, and storage

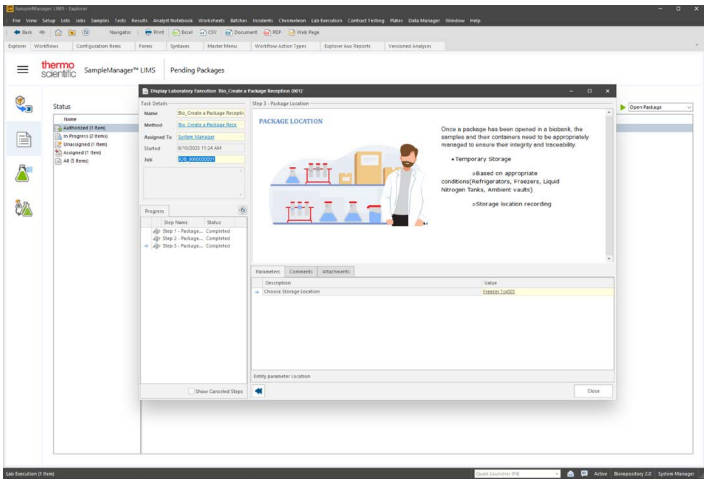


Thermo Fisher Scientific provides end-to-end solutions for the complete biorepository sample workflow

COLLECTION	PROCESSING	STORAGE	SHIPPING	DISPOSAL
Specialized collection and transport containers	Solutions for extraction, fractionation, and aliquoting	High-performance refrigerators and freezers	Cryogenic systems for storage and transport	Biohazardous sterilization and waste disposal

Biorepository Solution for SampleManager LIMS software

Comprehensive support from collection to disposal

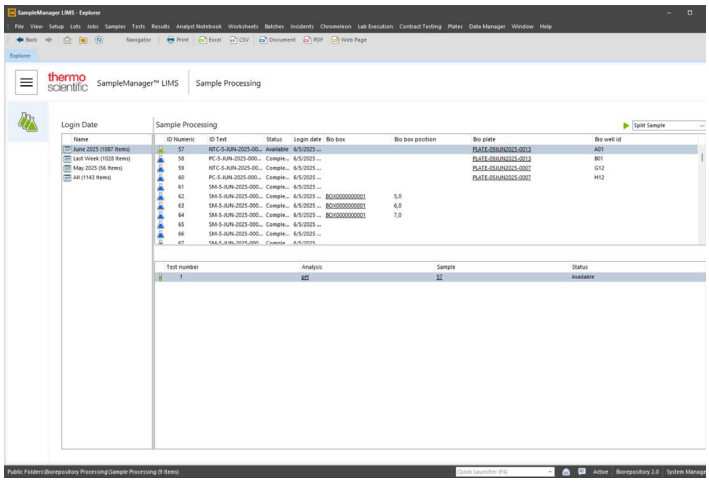


Collection

The Biorepository Solution enhances the collection phase by offering package reception via manifest file and quick-login reception. Upon receiving a package, it provides a step-by-step method to help users follow consistent procedures. Once the package is opened, its contents are reviewed and any incidents are documented. After the review is completed, the contents are prepared for the next phase.

Features:

- Package received via manifest or quick-login reception
- Package opened following Laboratory Execution System (LES) procedures
- Package review

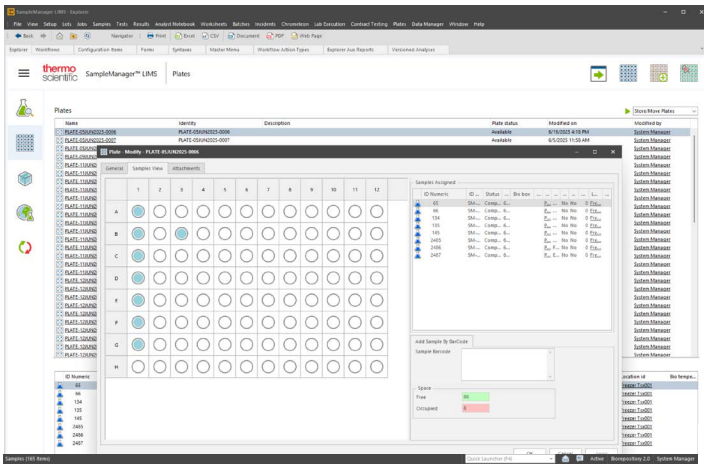


Processing

During the processing phase, the Biorepository Solution enables biobanks to aliquot the sample into smaller portions or volumes and conduct the corresponding tests to support the sample's integrity before storage.

Features:

- Sample splitting
- Test assignment



Storage

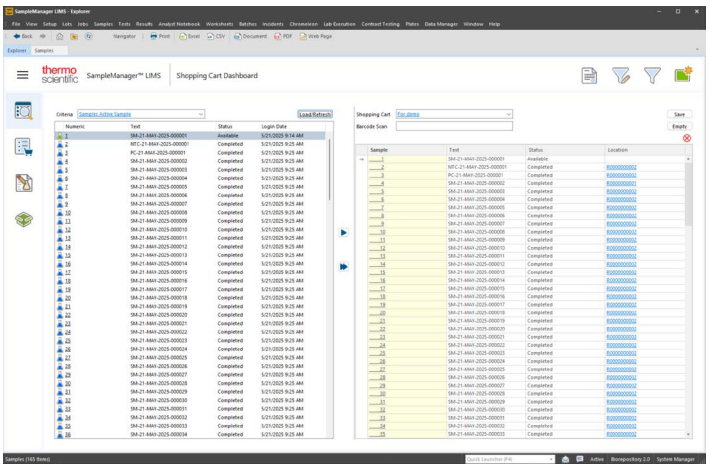
The primary purpose of a biobank is to provide a secure environment for storing samples. The Biorepository Solution enhances the storage phase with capabilities that help biobanks store samples safely, identify them accurately, and locate them easily. These capabilities include chain of custody and freeze/thaw cycle management.

Biobanks need to establish a hierarchical location structure to organize freezing units, shelves, and racks across single or multiple sites. The Biorepository Solution helps biobanks create this specific location structure and store samples in plates or boxes. It allows for the storage of a large number of samples and facilitates the movement of racks, plates, and boxes to different locations. The storage and movement processes are designed to be barcode-driven to enable users to perform operations efficiently, quickly, and with minimal errors.

Features:

- Freeze/thaw cycle management
- Plate and box storage entities
- Hierarchical location structure
- Material storage and movement
- Barcode-driven actions and launchpad



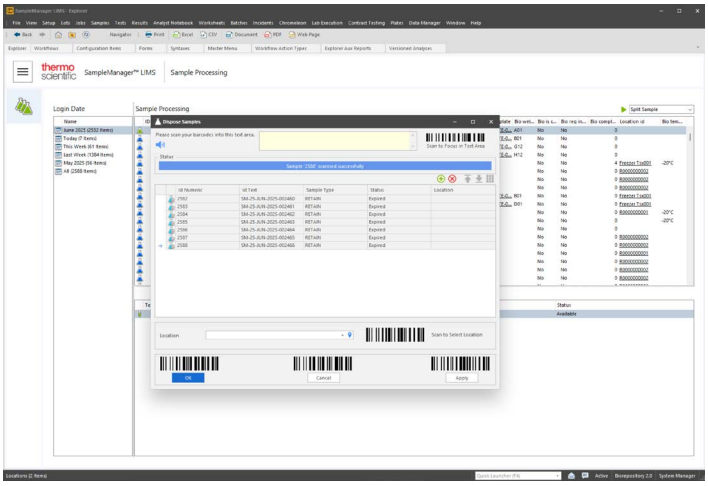


Shipping

The Biorepository Solution enhances the shipping phase by allowing users to create custom searches for samples and save them in a shopping cart. When a sample request is made, the solution maintains traceability of the request's content, purpose, and all relevant information. Once the request is fulfilled and the content is verified, users can proceed with the shipment. The Biorepository Solution tracks virtually all shipment contents to help confirm that target samples are included and verified.

Features:

- Creation of user-defined searches via shopping cart
- Request and shipment management
- Content verification



Disposal

The Biorepository Solution supports the disposal phase by enabling compliance with ethical guidelines and regulatory requirements once the biological samples have been securely destroyed.



Low-risk implementation

With more than 30 years of experience, we understand the value of your samples and take pride in helping you protect them. The long-established use of SampleManager LIMS software and our vast experience in highly regulated environments supports project success from the outset. Our implementation experts guide you through requirements gathering, team selection, project management, system training, go-live, and beyond, while tailoring the project plan to your organization's specific needs.

In addition to SampleManager LIMS software, Thermo Fisher provides comprehensive solutions and services for pharmaceutical customers, academic institutions, and government partners, offering enhanced integrity of their valuable materials. These offerings include customized chain of custody solutions provided by Fisher BioServices and high-performance cold storage options, such as ultra-low-temperature freezers and device monitoring systems that help predict outages and alert users to issues with critical storage equipment. Additionally, we supply reagents and consumables for material collection, processing, storage, and distribution.

When considering biorepository software and instrumentation options, choose Thermo Fisher for precision, productivity, and peace of mind.

Learn more at **thermofisher.com/samplemanager**

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