

Laboratory software

# Boost the connection from lab to line



## A single repository for all R&D research and testing data

Thermo Scientific™ SampleManager™ LIMS software features a built-in ELN to support experimental study. Record and store unstructured data, including links to relevant samples or tests, in a variety of formats, including rich text, spreadsheets, and PDF documents.

With the software, sample workflows map to business processes to safeguard the quality of raw materials before they're released for use in the lab, enabling full visibility of raw materials through to in-process production and beyond. The data stored in SampleManager LIMS can be used as part of the battery passport requirements, recording all sources of raw materials

along with their specifications and where and how they are used to produce in-process materials, as well as final products.

Instrument calibration, maintenance schedules and consumable inventory management are also automated to help lab personnel devote more time to meaningful research and product development, and less on manual tasks.

As a single repository, storing data in the software means that over time, research and development labs can apply AI to historic data to identify trends in potential compounds. This acts as a feed for future projects enabling labs to fail early based on assumptions of previous test outcomes for similar substances.

- + Electrical battery testing**  
Pre-configured templates to help manage traceability across matrix sequence testing.
- + Battery cyclers instrument management**  
Track and manage battery cycler instrument availability. View in-process tests and project when tests will be complete.
- + Fast and easy instrument integration**  
Pre-configured templates simplify the instrument integration process, enabling bi-directional connectivity to instruments including ICP-OES, FTIR, XRF and more.
- + Aggregate data and store accessibly**  
The software aggregates and stores preproduction, in-process and post-process measurement data in a structured, transparent and accessible way, that allows manipulation of the data to achieve desired outcomes.
- + Enhanced lot management**  
Enables traceability from raw materials through to finished product.
- + Workload management**  
Manage the lab's capacity, see what samples are in-house, and what testing is required to enable resource planning.
- + Calculations and analytics**  
The software supplies a built-in ELN to formulate complex calculations and transcribe as sample results. Additional summary calculations are provided to support further analysis, reporting, or data display.

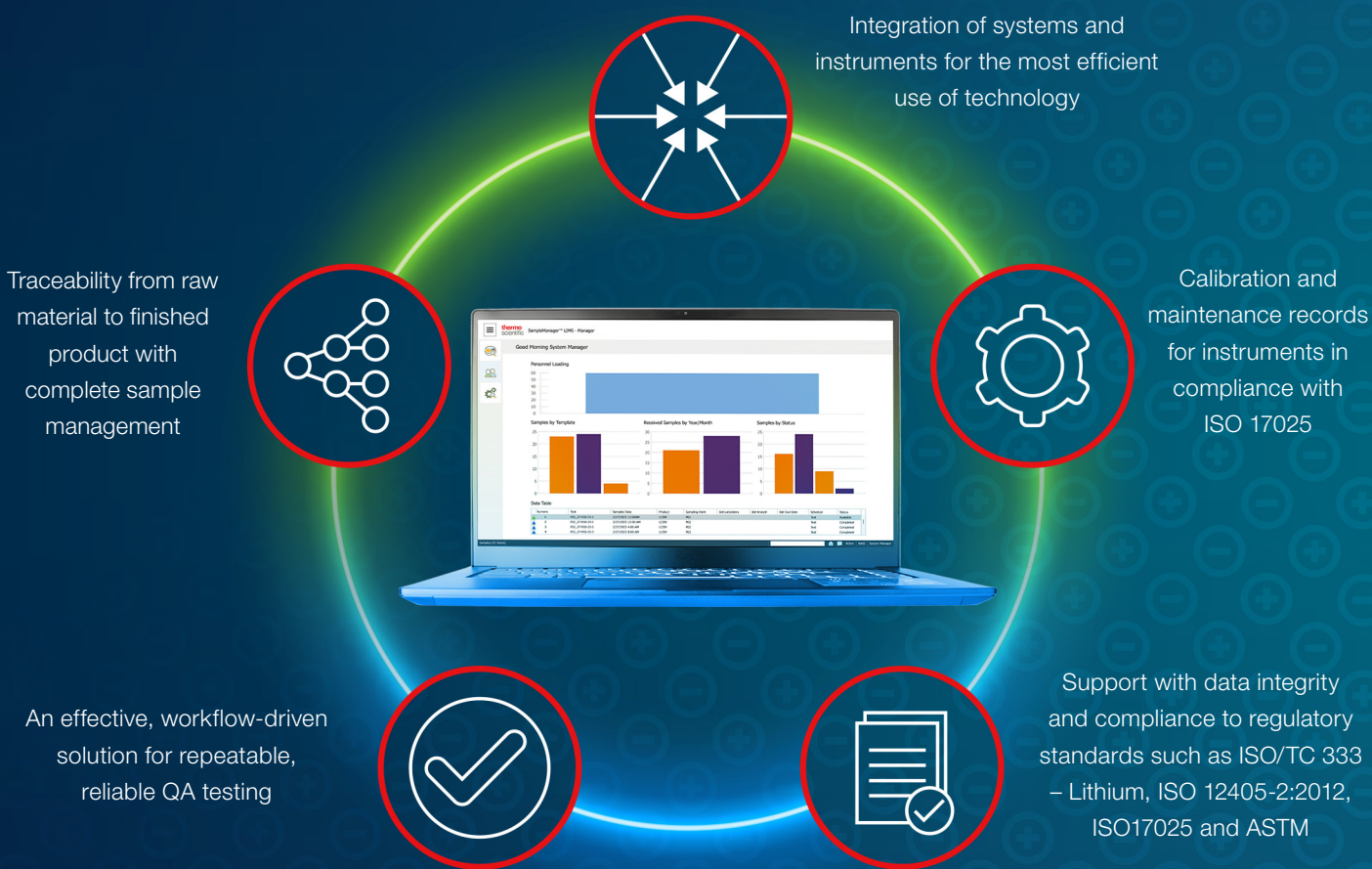
### Did you know?

The biggest proportion of the cost in battery manufacture is raw materials.

A LIMS solution can help reduce costs to increase profit share by reducing waste.

## Driving efficiencies in research to deliver future energy solutions

SampleManager LIMS software supports research and development workflows with increased throughput by automating routine analysis assignments, data handling and reporting. By connecting testing data and making it available for AI and machine learning, labs can have their data continually work for them, providing new insight into future compounds and further advancing the development of new technologies.



## Realize the value

Together we can drive your research, testing and production further, and deliver unquestionable value to your business, so you can focus on developing the next generation of battery technology that our world demands.

Learn more at [thermofisher.com/batteryLIMS](https://thermofisher.com/batteryLIMS)

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