



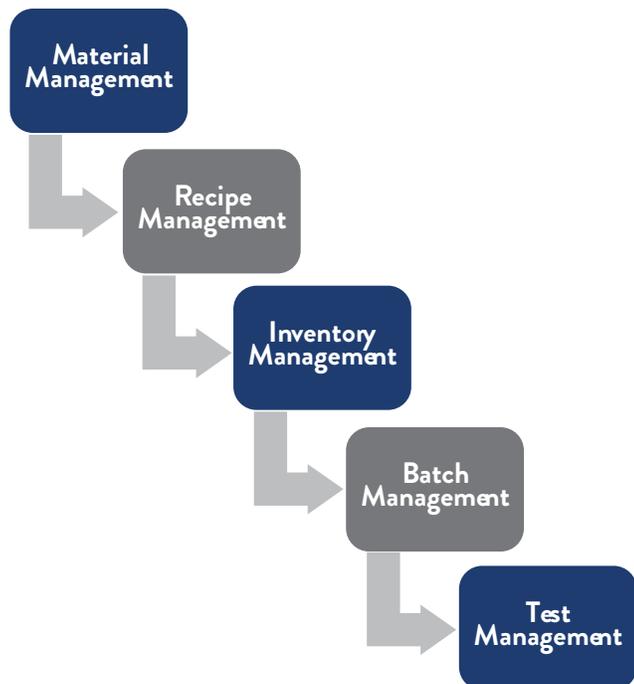
STARLIMS

# FORMULATION MANAGEMENT

STARLIMS solution streamlines formulation development and laboratory activities



STARLIMS solution effectively manages all internal lab processes, from creation of recipes, batches and samples to result entry and reporting.



The STARLIMS advanced Laboratory Information Management System (LIMS) incorporates an effective formulation management application in order to make it easier for you to design products and strike the best balance in terms of costs, use and performance.

With the STARLIMS formulation management module, you will be able to manage the creation of new recipes, define your targets, generate component lists, create batches, perform stability and compatibility testing, share technical and analytical data.

Leveraging more than 25 years of enterprise-level laboratory automation experience, STARLIMS has developed an exceptionally flexible platform to archive, trace, and manage scientific and laboratory information in a wide variety of formats.

Going beyond formulation management, STARLIMS also manages material and inventory data, stability studies, laboratory testing workflows, instrument data, document workflows and more. All of this information can be made available to any authorized user through 100% Web-based platform, designed for rapid global deployment.

The STARLIMS formulation management solution is designed for chemical (e.g. paint and coatings, cosmetics and personal care), food and beverage, pharmaceutical and biotechnology companies.

STARLIMS solutions have been implemented by pharmaceutical, biotechnology, chemical, food and beverage, government, and academic laboratories worldwide.

### Recipe Management

The STARLIMS recipe module is designed for managing recipes with active ingredients, additives and other



components. The typical process starts with recipe creation, followed by manufacturing a batch. STARLIMS provides standardized methods to create, copy, modify, review, edit and store recipes and sub-recipes resulting in faster recipe development and better consistency. The STARLIMS recipe module also allows users to define and store manufacturing procedures, link product specifications, documents, etc.

### **Batch Management**

Users can create manufacturing orders directly from the STARLIMS recipe module or from the production batch management. During the manufacturing process lots and quantities of the ingredients are entered or directly imported from other systems. Rule-based calculations can be done, e.g. if an ingredient is defined as an adjustable or as a filler. Samples can be taken at any time and tests, test plans and specifications can be associated.

### **Stability and Compatibility Testing**

STARLIMS allows testing and approvals for raw materials, intermediates and finished products. Most customer use this functionality to perform stability and compatibility testing, but it can be used to capture whatever test data you choose.

### **Material and Inventory Management**

The STARLIMS material manager allows the user to create material types and materials along with safety information, MSDS, supplier details, etc. Equivalent materials from different suppliers with different trade names can be grouped and selected during batch creation. The use of specific materials can also be enforced. Within the STARLIMS inventory manager all lots of raw materials, intermediates and finished products can be stored together with information about quantity, purity, location, expiry date, etc.



### **Reporting and Data Retrieval**

Reports for labels, inventory lists, weigh-in-sheets, test results, stability studies, etc., are already available out of the box. Furthermore STARLIMS offers advanced data retrieval tools to create filtered and/or sorted data list overviews including links to further detail views of the shown data.

### **Comprehensive and Compliant Data Management**

STARLIMS provides a complete audit trail with electronic signatures at designated workflow steps. Furthermore, STARLIMS provides the user with the flexibility to capture and manage new attributes as needed to address development needs and changing local requirements. These user defined fields can be a number, date, text, or list and are fully searchable.

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