



CodonLIMS is a Laboratory Information Management System implementation to be used in Pharmaceutical Companies, Healthcare Organizations, Chemical Laboratories, Research Laboratories, Quality Control Laboratories of Mining, Stainless Steel Manufacturing, Petro-Chemicals, Food, Fruit & Pulp industries to maintain and manage the lab information efficiently. This application provides the framework to track samples through a workflow model.

Advantages

Laboratory information should be easily accessible to prove compliance and measure efficiency. CodonLIMS ensures availability of information whenever and however needed. CodonLIMS provides automation of manual processes, rapid instrument integration and consolidation of complex informatics there by facilitating end users to share data and information, increasing collaboration required across the layers in an organization.

Highlights

- Automated Sample Management
- Integrated with Electronic Notebook
- Accelerated Laboratory turnaround
- Interfacing with Instruments and Instrument Management
- Regulatory Compliance with GMP/GLP/21 CFR Part 11

Training and Personnel Management

1. Record of Laboratory Personnel information including skill sets and certifications
2. Maintenance of training schedules, calendar and course details
3. Questionnaires attached to courses

Lab Consumable/Raw material and Instrument Management

1. Record and measurement of supplies and laboratory equipment
2. Sample Kit/Container tracking
3. Reference Standard/Impurity Standard lot maintenance
4. Location Audit Logs/Chain of Custody
5. Reagent Management, expiration alerts
6. Barcode, RFID Compatible
7. Calibration Management - Scheduling, Alerting, Recording

Sample Management

1. Sample Lifecycle Management and tracking
2. Master Creation
3. Chain-of-Custody/Audit & Allocation of Samples to Analysts
4. Screening/Review of Sample Analyses Data at different stages
5. Data Collection Sheets

Workflow management

1. Queuing of Samples for review/screening
2. Mapping of data and lab activities as they proceed in the laboratory & Workload creation

Report/COA Generation

1. Extensive Reports and Graphs for Sample Analyses, Audits, Instruments and Automated Certificate of Analyses Generation
2. Customized Reporting

Dashboards, Data Visualizing, Reporting

1. Display of real time lab status for lab managers, analysts for quick view of the lab processes
2. Alerts for stakeholders to be updated real time

3. Reports for instruments, customer activities, samples

Integration with SAP and external systems

1. Integration with Enterprise Applications (ERP, Databases) for easy organization-wide access of data
2. Integration with docuHive (A Document Management System by Codon Software) possible for a complete closed loop solution for management of documents
3. SOPs, Reports, Graphs, Images stored and managed

Instrument Integration

1. Interfacing with Lab Instruments for data capture
2. Reduction in time for data collection
3. Elimination of duplicate entries

Audit Trails and Chain of Custody

1. Record of Sample collection, preservation, analyses, movement to disposal and audit trails

Security

1. Secure platform with inbuilt Authentication and Authorization and Electronic Signatures
2. Audits, tracking and Change Control

Electronic Lab Notebook

1. Electronically document experiments data, observations, instrument results, attachments, chromatograms and chemical structures
2. Test Methods for Dissolution, drug release, dosage unit uniformity, product assays

Stability Studies

1. Provision for stability tests over varying periods of time with varying intervals as per the stability test protocol
2. Creation and maintenance of details of conditions, pull periods, and tests to be performed
3. Automatically create a sample for analysis as per the pull date
4. Records Sample Size and Step Intervals
5. Inventory Management to ensure the sufficient sample allocations can be done for stability studies
6. Management of Storage Conditions and Locations

HPLC/GC Column Management

1. Tracking of usage details for each column in the Laboratory
2. Information on availability status of any column
3. Records of solvents used in a columns
4. Maintenance of Audit trail of Column History
5. Maintenance of HPLC/GC service, calibration and warranty information
6. Connection with HPLC/GC to record sample analyses data

Microbiology Lab Management

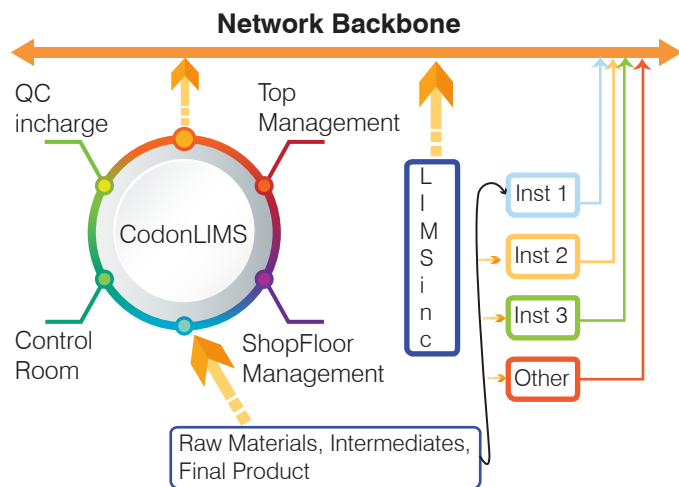
1. Culture Management
2. Media Reconciliation and Report Generation

OOS/OOT Management

1. Observation of data of OOS/OOT
2. Tracking of Observed by/Raised By
3. Investigation and Finding
4. Integration with Codon Quality Management System (CodonQMS) for a complete closed loop solution possible

Barcode RFID Compatible

1. Regulatory Compliance with GLP, 21 CFR Part 11 etc



Technical Features Highlights



The application can be accessed from any browser. The application is installed in central server and any system in an enterprise can access the application

using any browser. No extra set up required.

CodonLIMS is built in Java and is Platform Independent. Works seamlessly in Windows and Unix based systems

N Tier Architecture

A client – server architecture where presentation, application and database layers are logically separated. This facilitates the scalability and modularity of the application.

Web Enabled

The application can be accessed from a browser. The application is installed in central server or on the cloud and any system in an enterprise can access the application using any browser. No extra set up required.

Java and XML support

CodonLIMS is built in Java and is platform independent. XML is used extensively for the workflow methodology on which the system is built.

Database Independent

The Database can be changed as per the client's choice.

Modular Architecture

The design of the system is modular in nature. Each functionality is segregated into different modules, which enables extensibility of the system to incorporate growing needs.

Customizable

The application can easily be customized to include salient features adhering to different industries

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