LabWay - LIMS
Whatever Way Choose LabWay-LIMS
Focus on your Laboratory...

Leave the **Software** with us!

Do what you do best with **LabWay-LIMS®**!
Managing your laboratory and producing the best results for your clients.

**Labway-LIMS®’s aim** is that the laboratory’s technical directors focus exclusively on the technical aspects of the analysis procedure in order to obtain the **best results**, while the laboratory management is entirely devoted to business issues.

Let your software help you grow, and optimize your time and resources.
In analysis laboratories, Ambidata's LabWay-LIMS® (Laboratory Integration Management Solution) plays a vital role both in the organization and the management of the analysis information.

LabWay-LIMS is used throughout the entire workflow of activities in analysis laboratories. This workflow extends from the sampling quoting and scheduling until the certificate of analysis and invoices issuing, and plays a decisive role in implementing the accreditation process, the laboratory's internal organization and fully satisfying growing customer demands.

LabWay-LIMS integrated modules attend all the technical and functional questions of each player in the process: CEO’s, laboratory technicians, technical directors and middle managers. Integration with the Internet is straightforward, through AlWeb, LabWay-LIMS Web interface, which can be adapted to suit the specific needs of each customer and integrated into the laboratory website, providing customers with much simpler and faster access to information.

Using the latest development tools from Microsoft, Visual Studio .NET 2008 / 2010, together with the SQL Server 2005/2008 database system, Ambidata’s software offers the highest guarantees on information reliability and security.

Ambidata’s applications are the result of the latest software development techniques, based on Microsoft Windows .NET system, assuring that the application complies with each of the following: Autonomy, Security, Availability, Scale (Up and out), Interoperability and Reliability.

In addition, LabWay-LIMS integrates with Microsoft Office and Adobe Acrobat tools, enabling information to be exported and dealt directly on those applications. As Ambidata software is developed and implemented entirely by us, integration with the various Enterprise Resource Planning (ERP) applications on the market is also possible and real.

Why do I need a LIMS in my Laboratory?


Here at Ambidata we have a vision of the future. A future where the Digital Labs have their equipments and software’s integrated, capable of optimizing resources and assuring the best quality of service.

Our main goal is to serve our customers, supplying unique and valuable high quality solutions and products, at the best prices in the market. To this end, we have brought together technicians from a wide range of backgrounds to create a multi-disciplinary team specialized in quality, environment and software development.

We are leaders in Portugal on LIMS providing and have a large and wide experience in multiple industries. We want to carry on as early movers and innovators in this field..
I want to implement a product which can be **integrated** into every department of my laboratory.
The Laboratory Procedure

LabWay-LIMS ongoing analysis procedure is the result of years spent studying and examining how analysis laboratories work. The procedure aims, essentially, to fully cover every functional phase in a laboratory’s workflow.

Each of the different modules developed for LabWay-LIMS was created with the aim of assisting laboratories with different aspects of their work - whether the focus is on providing productivity-oriented tools, or on management with a view to providing information which is essential to accurate strategic and day-to-day management decision-making.

It is also LabWay-LIMS’ aim to become a core component of the entire management and quality-control process within the laboratory. To this end, LabWay-LIMS includes a suite of tools of central importance with regard to the accreditation process:

01. Traceability of information produced.
02. Monitoring and management of access to information.
03. Guarantee of confidentiality.
04. Version control of Certificates of Analysis.
05. Standardization of procedures (SOP’s).
06. Management and monitoring of resources.
07. Ensuring compliance tests and Quality Control
08. Extraction of Quality Indicators
09. Obtain Knowledge from you Data
Work Environment

LabWay-LIMS work environment has every feature that users already find and use in Windows application environments:

- Windows Developed Interface.
- Menus and toolbars system Simple navigation.
- Integration with Microsoft Office tools.
- Export of the Information in various formats: Word, Excel, HTML and PDF.
- Easy searching by multiple filters.
- Sorting of information and user-defined criteria.
- Optional user interface configuration.

In addition to the interface features, LabWay-LIMS has also an authentication system which recognizes whoever is using the software and immediately configures all the menu options available to the user, based on information from the authentication module.

“Will my employees have to spend more time learning to use the new interfaces, within a new software application?”
Quotations / Budgets

The quotation or budget module allows the quotes creation for customers, with their respective analyses and costs, grouped by location, nature and type of samples. It allows quotes to be viewed in a quick and organized way, and options to monitor their validity and status.

Speed up your quotation and budgeting procedures! With this module, you can create quotes based on any previous one, or any price list already loaded into the application.

Upon the acceptance of a quote, the system can automatically create the respective price list, and establish its validity.

This module provides the laboratory with an extremely useful tool for the management and monitoring of all quoting needs, answering a number of questions:

1. How can I find out if this customer has already an established quote?
2. How can I ensure consistency across the values presented in different quotes?
3. How can I guarantee the traceability of a quote made to an entity which is not yet a client of the laboratory?
4. How can I guarantee that the billing department knows exactly which prices to use?

"How can I manage and monitor all the budgets my laboratory issues?"
Sample Scheduling and Sample Collection

The sample collection scheduling is of critical importance, and consists in organizing the collection tasks to be carried out. With regard to sample collection:

1. The application can assist you with the scheduling procedure.
2. Tables and schedules are produced, by customer and by collection technician, with the following information: Who does what? When? And what is the technicians’ occupation rate?
3. You can easily reorganize scheduled tasks, and monitor both finished and unfinished tasks.

For each sampling point, the following questions are answered: Who carries out the collection; when is the collection carried out; which parameters are to be analyzed and which labels are required; Comments regarding sample collection.

Using this module provides the laboratory with a medium and long-term picture of future work, allowing a better organization on all productive tasks.

You can view the status of each program, sampling point or collection date: scheduled, partially completed, collected or cancelled.

Based on the entered data in the scheduled collection, the generation and printing of the collection reports can be carried out in two or three clicks, greatly enhancing productivity and facilitating the monitoring of the laboratory’s work to be carried out.

“How can I make digital the laboratory tasks which are beyond the scope of our software applications?”
Sampling Reports and Sample Entry

Issuing collection reports and logging samples are of great importance, as they are everyday activities in any laboratory and involve a considerable amount of work.

Sampling Reports

At this stage, the laboratory Manager has an idea of the volume of scheduled work, and the number of failures due to cancelling/rejection in the collections procedures.

In this module, LabWay-LIMS® produces Collection Reports and recipient identification labels which assist automatic sample login.

Samples which were collected by customers or other entities and enter in the laboratory are also logged in using this module, for label printing.

All samples comprised in a collection report may be generated (entered into the software) quickly and efficiently, becoming available immediately for analysis.

Samples

The samples module allows the validation of all information relating to a Sample. Attributes of any sample may be altered (adding or removing parameters, changing the delivery deadline, and so on.).

The user may also cancel samples, view their status, access the CoA’s version history, and view pending samples and the number of parameters defined.

“To what extent are accreditation requirements covered by a software?”
I need to optimise the laboratory processes in order to gain a competitive advantage.

Work Allocation

The creation of work lists fulfils the aim of allocating laboratory analysis work, according to analysts’ qualifications and their current workload.

In this module, work list allocation may be carried out by parameter, by sample and by equipments integration.

The allocation of analysis work to laboratory technicians depends on their responsibilities and skills regarding the analysis methods, implemented in the software configuration. Based on this information, the software takes on the task of notifying laboratory technicians and those in charge of the analysis work regarding:

1. Who does what?
2. How many parameters are assigned to each technician at a given moment?
3. Who is able to undertake recently arrived work?

This way, issuing work lists process is greatly simplified. For technicians, the answer to the question “What do I have to do today?” is a mouse-click away. And nowadays as the late delivery of results is a greater problem than ever, it is of critical importance that the samples reach the analysis bench so that work begins as soon as possible.

“How can we use the Software as an assisting tool for the entire functional workflow of our laboratory?”
Entry of Results

One of the major factors of risk in any LIMS is related to the high mistaken data entries rate into the system.

It is vital that in the results producing stage, analysts have access to all of the necessary information to pre-validate them in order to minimize the errors occurrences resulting from mistyping, processing and/or analysis of results, and thereby avoid many errors which would only be detected, otherwise, in the final stages of the CoA’s validation.

When entering a result into a work list, the analyst has access to all the information necessary to validate the result:

1. The value of the Calculated Result based on the calculation formula and the definitions for decimal places, quality standards and conversion factors;
2. Value of the Processed Result based on the definitions of the quantification limits;
3. Expression of Result, Units and Limit Values.

On the other hand it is vital that the analyst knows which samples are most urgent in order to prioritize them accordingly and assign a status to each determination/result.

LabWay-LIMS includes a system of violation warnings which alert the technician if settings are in violation of predetermined limits. The application has a color scheme which provides an effective visual alert for out of specs instances.

Search and Validate Results

Search and Validate Results is used to carry out the final validation on the entered, by the analysts, work list results, and the viewing upon the samples parameters and their respective results status, in addition to various other information regarding parameters that affect the results validation.

Based on a structure of filters, the person in charge of the validations has a grid of available results where samples are presented according to a color scheme indicating their status. The results validation may be carried out by sample, by parameter, by analysis method, by customer, by area, by sample point, etc...

“It is very difficult to know what laboratory technicians are doing and what are their rates of productivity!”
I need tools which will **optimise** my procedures and improve my quality levels

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**Generate Certificates of Analysis (CoA’s)**

The issuing of error-free **Certificate of Analysis** is the main aim of any laboratory. Not only for the sake of the laboratory’s image with regard to customers, but also due to time waste and resources employed in correcting small mistakes which can happen every day.

LabWay-LIMS has various validation levels throughout the process, which minimises the possibility of errors in the final stages. This makes the issuing of bulletins an automatic process, and constitutes the final phase of result validation.

Generate Analysis Bulletins allows the user to create provisory and/or definitive bulletins, to finalise them or to create versions. If every parameter of a sample has been analysed, a definitive bulletin for that sample may be issued. If some parameters are still awaiting results, a partial bulletin may be issued, containing the results obtained so far.

LabWay-LIMS also provides for automatic export of bulletins in digital format, by customer and for a specified time-frame. The resulting file can be sent via e-mail to customers who have the LabWay-Aqua software, greatly facilitating the process of delivering results to the customer.

**Labway-LIMS** also integrates **digital certification** of CoA’s, guaranteeing their provenance and authenticity. Thus, it is possible to stop using paper in any information relating to the certificate of analysis and the client can receive information in real-time.

**Bulletin History and Digital Library**

Every CoA generated is saved in digital format (PDF) on the data server. Each bulletin produced and sent to a customer is assigned a unique and unalterable version number. The bulletin history allows the user to view every version produced by the system, thereby maintaining complete traceability of documents produced and sent to customers.

Bulletins may contain a digital certificate guaranteeing their provenance and authenticity. In this way, a paper trail of all information regarding the Analysis Bulletin becomes unnecessary, and the customer can receive information more rapidly.

“**My customers want me to send CoA’s in digital format!**”
Invoicing Price Lists and ERP Integration

With LabWay-LIMS you can, at any moment, see which certificates have been invoiced and which remain to be invoiced, by customer. The invoicing module allows you to establish, quickly and easily, the certificates billable amount to customers to be issued, based on previously created price lists.

These price lists can be general or customer specific. The general lists are normally created by sample type and reflect the laboratory’s prices to the generic targets. Customer lists are created based on a quote, or on a generic or another customer’s list.

You can invoice for a set of selected certificates, or all pending certificates for a specific customer. For each certificate, you can opt for not invoicing for a particular analyzed parameter, to invoice for it by another price list, apply a discount, or invoice according to a preset price package. You can add other costs such as travel, consultancy, and equipment hire or others, to any individual certificate or to the full set of them.

Integration between LabWay-LIMS and your management software allows the automatic creation of a bill each time an invoice is drawn up. The invoicing module allows you also to issue the joint letter/report for certificates, in addition to the invoice document.

“I am always unsure whether I am billing my customers accurately!”
Management Statistics

The way in which information is processed is essential in enabling efficient management of a laboratory. LabWay-LIMS has several modules focused exclusively to processing and supplying information, grouped by time period (day, month, quarter or year) for the management of the laboratory:

1. **Pending Samples**: displays the pending samples in the laboratory, indicating their status and priority, as well as the number of parameters still to be analyzed in each sample. This information is vital to knowing which samples are delayed, and which results should be given higher priority.

2. **Samples completed by period**: displays the number of samples logged into the laboratory by period / customer, according to their nature or status: programmed / spontaneous; field collected / internally delivered; cancelled / in laboratory / in lists / in certificate. This information is useful for the planning upon a potential increase - number of extra employees needed, or analyze whether the number of samples exceeds the laboratory’s capacity.

3. **Productivity by Parameter / Technician**: displays the number of analyses carried out by technician / parameter in a specified period, along with the minimum, average and maximum time required. These lists allow you to monitor employees’ work and the number of carried out analyses by parameter, and thereby decide whether or not it is necessary to invest in new equipment.

4. **Work Completed by Sample Type**: displays the number of samples analyzed by sample type, along with the minimum, average and maximum time required. Allows you to see which sample types are most commonly analyzed in your laboratory, and implement specific measures for those types.

“What is often missing is the information that I need to make decisions based on real data from my laboratory!”
I need to provide my customers with **new ways** and supports for receiving their information quicker.

**ALWEB**

**AlWeb** is a unique tool which allows your laboratory's customers to view sample results and issued certificates, online - over the Internet.

To use **AlWeb** the customer must be registered in the user database, and apply for that in the laboratory’s website. After that application, an access key will be generated.

The **LabWay-LIMS** Web interface provides online access to a group of information:

01. Company Profile and Info
02. Collection Areas
03. Sampling Points
04. Collected Samples and analyzed parameters
05. CoA's Search and Download
06. Results issues and Tables of Out of Specs
07. Graphics on Parameters Evolution over time
08. Request information from the laboratory
09. Complaints and suggestions
10. Direct Information Export to Excel
11. Out of Specs and legal limits warnings

**EDM - Data Export Import Module**

For public or private institutions with responsibility of managing of water for human consumption the data transmission of the sample results is a constant concern. With **Labway-LIMS** this is a concern of the past, since the our software integrates a system of automatic export of all analytical results in multiple data types (XML; Excel; CSV; WebService Data Transmission)

This way you can provide an additional service to your customers, without any investment of time! So, avoid typing errors and save time with your customers, making them to have the data published in a very simple regular way.

This Module has associated a functionality that your customer can use, **LabWay-SideBar**, that allows data to be received on his desktop in real time and without any user intervention. This is really a “must have” application.
I want to achieve better results and improve customer relationships

Information Processing and Interpreting

One of the most important modules of a LIMS such as LabWay-LIMS is the one which enables the management and interpretation of results obtained in all stages of the process. In this module, you can create:

01. Results and Out of Specs tables: analysis results and out of specs for the specified time frame, sampling points and parameters;

02. Compliance Tables: with all the completed analyses for the specified time frame and sampling points, indicating whether they are suitable or unsuitable, and the relevant parameters if unsuitable;

03. Parameters and Sampling Point Statistics: with minimum, average and maximum values, and the number of limit values out of specs by sampling point / parameter.

04. Results Publication Table: table used to publish analysis results in the managing entity’s media (official publications, edict, website, and so on…)

05. Efficiency Tables: displaying efficiencies by parameter or date.

All information produced by LabWay-LIMS reports can be exported to a number of formats, such as PDF, Word, Excel and HTML. This way, information is not restricted to the LabWay-LIMS software, but can be processed in other applications as well.

“A very high slice of our time and energy is spent searching for data to answer customers who are always calling and requesting about the sample results.”
LabWay-Scorecard

The LabWay-Scorecard is software that allows you access in real-time to hundreds of charts / tables with different assessment of their KPIs.

The indicators produced will help analyze information about all laboratory processes, since the Scheduling to the Billing of CoA’s, through Budgeting, Sample Management, Work Lists, including the areas of Configuration and Auditing. **Every data inserted in LabWay-LIMS can be used to extract information and produce Knowledge.**

This module produces 150+ different types of pre-formatted graphs, such as the evolution of parameter results; percentages of out of specs; number, percentage, average periodicity and costs of analyses carried out; collected, pending and completed samples, among others. In all of these, the user just has to specify the filters to be used in the creation of the graph. Each of these graphs opens in an Excel spreadsheet, where the table with the relevant data is automatically generated.

Analysis Monitoring Graphs

The analysis monitoring graphs module allows any type of graph with 1 or 2 axes to be generated, with any number of parameters, allowing ratios to be automatically generated. This is the ideal module for analysis monitoring graphs, and the analysis of parameters and their interaction.

“It is important for me to be able to process all information produced in other data analysis tools.”
I demand all the information to be able to manage my orders for stock and avoid waste.

Laboratory Stocks Management

Stocks management in Labway-LIMS provides concrete answers to the specific needs of laboratories. Thus, in addition to manage lots of products, carrying out movements between warehouses, perform inventory management and provide lists of products to order and its orders, LabWay-LIMS inventory management can still manage expiry dates of reagents, labels for issue products, follow the development of products in warehouses and manage multiple warehouses (rooms, freezers, benches, etc).

1. Types of Products and Products: registration of the types of products (glassware, reagents, gases, etc.) and different products by type. For each type of product you can configure at Labway-LIMS all the information you want to register. For each product you can define an unlimited number of lots, the minimum stock values and expiration dates.

2. Types of movement: this information is completely dynamic in Labway-LIMS. The user is not limited to record movements of entry and exit. You can set types of movements (eg, outputs or inputs for inventory, break exits, etc.). This allows the user to see the products movements by type of movement.

3. Suppliers and Products by supplier: registration of suppliers of laboratory and products purchased by the supplier with the conditions of supply.

4. Warehouses: the types of stores found in a lab are very diverse (rooms, freezers, benches, etc). Labway-LIMS allows the control to the detail of existing products in each store.

5. Movement of stocks and inventory management: areas where they are made the movement of products, purchasing and inventory management (you can check the existing quantity of product, batch, expiration date, warehouse, etc.).

“I hardly know which products I have in stock and manage their validity periods.”
WE INNOVATE AND CREATE

LabWay-LIMS® is an Ambidata® Digital Solution. It was designed and implemented entirely by the Ambidata team, with credentials in Chemical Engineering, Biology, Quality and Information Technology, which has been developing this LIMS, aimed specifically laboratories of analysis, for the past 10 years, in dialogue with our customers and partners.

WE IMPLEMENT AND TRAIN

The entire training process is supplied by Ambidata, so that every single stage is a learning process of the multitude of functionalities available in LabWay-LIMS®. Ambidata offers its customers a training programme which enables the laboratory to implement the application over a 4 to 8 week period. The entire training programme is designed and implemented according to the specific needs of each laboratory, so that the laboratory can decide on the best procedure and timing for its employees’ training.

Training is always provided on-site at the laboratory. Each group of users receives training in their workplace, so that the whole process can provide time for reflection on the procedures currently used, and those to come into action.

The training is always accompanied by Ambidata® employees with specific training for every moment of training and is appointed by Ambidata a Project Manager who will be the main contact between the laboratory and the application development team of Ambidata.

WE PROVIDE TECHNICAL SUPPORT

After completing the installation and training process, Ambidata always offers its Customers a technical support plan which allows it to keep the application fully functional and constantly updated.

Our aim is that every Customer is working with us in the improving of the application and helping us developing new functionalities, helping LabWay-LIMS to grow.

Labway-LIMS® also implements internally a system for remote assistance so we can keep a permanent connection between the Ambidata® and Your laboratory. We will be always available to perform specific developments of the modules so Labway-LIMS® best suit the needs of your laboratory.
we create and develop
Digital software
Solutions for analysis
Laboratories

LabWay-LIMS is a certified product by Veritest - Microsoft’s certifier entity. Ambidata is a Microsoft Partner company. The applications developed by Ambidata use the most recent Microsoft development tools: Visual Studio.NET and SQL Server. Ambidata, Lda detains the register of the Asoft Nº 993/D/03 software, being proprietor of all the documentation, code source and binary of the software. This document is only informative. Ambidata doesn’t give guarantees, implicit or explicit, in this catalogue.

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