

## TECHNICAL SHEET

### Labor**soft**-LIMS

#### PHYSICAL-CHEMICAL AND MICROBIOLOGICAL ANALYSIS

##### ACCORDING ISO 17025

*Meets the conditions imposed regarding the standardization of the laboratories' activity.*

##### Ultra-secure

*The integrity and security of information is a priority for us.*

##### Adaptable to the flow

*Regardless of the way the work is developed, the system adapts to the needs of any laboratory.*

##### Easy to use

*With an intuitive structure and interface, it has been designed for maximum efficiency.*

The Labor**Soft**-LIMS system streamlines the laboratory's activity through the automatic and centralized processing of specific information, fluidized their intra- and inter-departmental circulation, while eliminating redundant operations, consuming financial and human resources.

Increases the competitiveness of the laboratory by applying clear and well-established procedures. It processes the information specific to the laboratory's activity, centralizes and automates its management processes.

Launched at the end of 2017, the system aims to meet the needs of contemporary digitization, being at the same time flexible and customizable depending on the particularities of each laboratory.

## FEATURES

##### Flow detailing

Nomenclatures for defining equipment, devices, tests, standards, price lists, services, partners, attributes, tests, personnel, resources, units of measurement.

Entering test orders with the association of information: order number / date to the customer; series and order number automatically assigned by the application; requested sampling date; the client's point of work; GPS coordinates; attaching documents.

Issuance of partial or complete proforma invoices, depending on the valid price list and the associated discount.

Generation of sampling plans and sheets, with the automatic inclusion of the details from the order level so that the sampling teams have the maximum information necessary to carry out the sampling action with efficiency.

Highlighting the delivery of samples and sampling sheets in the laboratory, by issuing the minutes of delivery-receipt between the sampling teams and the laboratory staff.

Entering information related to sampling sheets and samples taken [including GPS coordinates and attaching pictures / sketches] and automatic generation of worksheets.

Prioritization of tests depending on sample ID / sample type / sampling date / order ID / number of tests requested / types of tests / quantity.

Introduction of the test results [even in the repeated test version with the highlighting in the report / bulletin of all the results or ... only of one / some of them] with the possibility of prioritizing the issuance of sequential [partial] reports.

Issuing and closing test reports / reports.

Generation of minutes of delivery-receipt of test reports.

## Multi-user & subsidiaries

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If the laboratory has several locations, in different cities, or by the nature of its activity requires more users [users in LaborSoft-LIMS can be generated infinitely many work points / users.

Moreover: for special cases, the same user can be assigned rights to different work points.

## Beaches of series and numbers on forms

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Through the "Administration" menu, for each form used, you can assign both series and number ranges for ... each existing work point.

The laboratory may change its serial and number allocation policy at any time, with immediate applicability in LaborSoft-LIMS.

## Input level attributes

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Whether it is a device, equipment, a sample, an order or a sampling sheet, there is a clear need to associate them with the most diverse information in order to have a complete picture of the action. LaborSoft-LIMS can do this, and more. Thus, their attributes and groups are predefined by means of nomenclatures, after which, at the level of forms ... only values are entered.

## Information traceability

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The system offers the facility to find all the information along the entire flow, starting with the registration of the order and until the issuance of the bulletin or the test report.

## Incadrare rezultate incercari

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One of the general options in the application is to issue final documents including automatic framing of results [or ... no framing], within the limits imposed by the standard associated with each test.

Moreover, another option is the automatic marking on documents of those tests accredited by RENAR / authorized by the Ministry of Health / etc ... only during the period of validity of the accreditation / authorization documents...

## Document *input* - *output* registers

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It is one of the most common functions in the application, but also the one that frees the laboratory from all the labor consumption that was necessary in the manual completion of the registers.

Limited only by the physical dimensions of the sheets used [A4 / A3 ... etc], the input / output registers can be generated with even more than 50 columns of data,

with the information related to each record line.

and the presentation of activity information in various forms.

## Document versioning

Through the quality manual, each laboratory establishes and configures the forms used, starting with their name and up to the information contained as well as their arrangement on the page. Thus, LaborSoft-LIMS allows the uniform use of the same forms throughout the laboratory.

Consequently, from the moment of modifying a form, the entire organization will issue / print in the same form.

## Rapoarte complexe de activitate

From simple activity reports to complex ones, which include data from different areas of activity [including graphical representations of developments], LaborSoft-LIMS is a powerful tool dedicated to laboratory management

## Attach files

In multiple areas of the application, there is the possibility of attaching documents. Starting from the nomenclature area, and going through the entire flow to the level of the reports, the system allows the attachment of files in various formats.

Thus, a diagram, an image or even the technical details provided by the customer [such as autocad files] can be attached to any data entry window.

Files of any format can be attached, and those recognized by the browser [.pdf; .jpeg; .png] open directly from the application in a secondary window, no need to download them from LaborSoft-LIMS in the device memory. And that happens even on mobile devices.

Video files can also be attached, and standard format [.mp4] files run ... directly in the browser.

## TEHNIC

### Cloud storage

LaborSoft-LIMS is an application stored in the cloud, available 24 hours a day, which allows very simple and instant access to information only ... through an internet connection and a browser.

The operating system of the device can be: Windows, macOS, iOS or Android.

The main compatible browsers are: Chrome; Mozilla, Internet Explorer, Edge, Safari.

No local installation of the application or an extension is required.

### Compatible devices

Accessing the LaborSoft-LIMS application can only be done using an internet browser from any device, such as:

- a | computer [*laptop / desktop*];
- b | smartphone;
- c | tablet.

### Bar code 1D & 2D

The system was designed to be used in conjunction with barcod technology [both reading them with barcod readers and printing on documents issued from the application]. Thus, on the printed forms [test reports / bulletins; sampling sheets; worksheets;

handover-receipt reports ... etc]  
document series / numbers or any other  
information can be translated into 1D and 2D  
barcodes [type CODE128 or even QR Code].

And for maximum efficiency, even touchscreen  
monitors, such as POS, can be used.

- a | laboratory code;
- b | unique key;
- c | user;
- d | passwords.

Moreover, the transfer of information through  
the application, between the device and the  
cloud area, is done using a 1024-bit encryption  
key, thus ensuring the integrity and absolute  
secrecy of data transfer.

## Multi-tab operation in the browser

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LaborSoft-LIMS provides ease of operation in  
multiple tabs in the same session. Thus, the  
same user can operate data in different tabs  
[each for a different area of the application],  
open in the same browser.

Users can create desktop shortcuts, bookmarks  
or even bookmark bars in browsers, for instant  
access to the areas they currently use.

The same user can use different devices for  
logging in with the mention that each of them  
must have been enrolled in the application.

If the laboratory management considers it  
sufficient to access the application only from the  
devices located at its headquarters, it can do so  
by keeping confidential the code and enrollment  
key received at the time of signing the contract.

## Security and safety

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This is done cumulatively by:

- » through antivirus services provided by the  
cloud storage service provider;
- » enrollment in the application of laboratory  
devices, fixed or mobile;
- » setting and managing users and passwords by  
each laboratory;
- » the initial configuration and modification of the  
rights of each user, including the immediate and  
total blocking of a user, or temporary ... during  
the holiday.

Enrolling a device in LaborSoft-LIMS is the  
creation of a direct link between the application  
and the device [eg laptop] as a physical hardware  
entity, such that the latter is accepted as a  
friendly device in relation to the computer  
system.

In order for a person to be able to access the  
system, they must have the following security  
features:

## SaaS [*Software as a Service*]

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LaborSoft-LIMS is used in SaaS mode  
[Software as a service], based on a monthly  
subscription. Thus, there are no investments  
from the laboratory in equipment ...

- » *without servers*
- » *without licenses*
- » *no upgrades for other secondary systems*

In this way the laboratory will use a minimum of  
IT resources [a browser and an internet  
connection] in the conditions in which we  
ensure both the security and the continuous  
optimization and functionality of the database.

In addition, the laboratory can have access to  
the latest functionalities that we will load in the  
application, thus benefiting from a huge know-  
how, without any additional costs<sup>1</sup>.

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<sup>1</sup> Valid for 2-year subscriptions

## BENEFITS

### Cost savings

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The transition from manual records [classic registers] to an integrated laboratory information management system such as LaborSoft-LIMS significantly reduces costs by:

- » IT equipment [acquisition / maintenance and continuous licensing thereof];
- » maintenance of laboratory equipment;
- » laboratory materials and consumables;

### Configurability

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The system has the highest degree of configurability, the allocation of various rights according to the user, starting from user rights, the association of multiple values to equipment or documents, and up to the possibility of issuing new versions of the latter.

### Comercial

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The efficient and fast management of the information, creates to the laboratory a very strong competitive advantage.

Easy access to the price lists associated with the tests, automatic invoicing according to the existing offers / price lists [valid or general], is another advantage offered by the application.

At the request of the beneficiaries, cumulative lists can be generated to include information that has been collected starting from the initiation of the order and until the issuance of the bulletin / report.

### Activity verification

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The system proves to be an ideal tool for working time management, offering multiple activity control options.

### Automatic data retrieval

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The equipment and laboratory equipment that have their own software can be connected to the application for the automatic download of the test results. Note: This area requires development for each device, given their great diversity.

### Documents with an avant-garde design

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In printed / printed documents we use icons and icons, for an easy, correct and fast transmission of information.

### Paperless

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Last but not least, the use of LaborSoft-LIMS reduces paper consumption.

Incercare - LIMS
52.58.185.52:8095/Sample/Edit/1#
Other bookmarks

Rapoarte de Incercari | Dashboard - LIMS | Comenzi - LIMS | Clienti - LIMS | Standarde - LIMS | Autorizari - LIMS | Fise de prelevare - LIMS | Planuri de prelevare | Fise de lucru - LIMS
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**Incercare - Determinarea continutului de azotati - UZATA**

Cod: AU001      Termen de prelevare:

Nume: Determinarea continutului de azotati - UZ      Tip incercare: METODE SPECTROMETRICE P... x

Standard: Calitatea apei. Determinarea cont... x      Cantitate: 1

Calitatea apei. Determinarea continutului de azotati. Partea 3: Metoda spectrometrica cu acid sulfosalicilic-->SR ISO 7890-3:2000 IS-01-04 IS-01-03 ed.1, rev.0

Limita inferioara:       Limita superioara:

Unitate de masura: mg/l(mg/l) x      Departament: Chimia apei x

Valid:

Lista de preturi    Moduri de lucru    Aparate    Subincercari

Copy    Print    Coloane vizibile    CSV    PDF    Incarcare    Editare    Adaugare    Stergere      Caută:

Pret lista	Pret	Valid
Lista de pret 2018	31.04	☑
Lista de pret 2019	35.10	☑


Pagina: 50

Afișate de la 1 la 2 din 2 înregistrări    Click pe un rand pentru selectie


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Precedenta    1    Următoarea


**Etichete inserate autoadezive, pt laboratoare**



**Imprimante pentru etichete autoadezive**



**Cititoare de coduri de bare pentru laboratoare de mediu integrate cu LIMS**



## EVIDENCE OF ACCREDITATIONS / AUTHORIZATIONS FOR TESTS WITH THEIR AUTOMATIC MARKING ON TEST REPORTS (\*)

Autorizare - LIMS
52.58.185.52:8095/Authorization/Details/7

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Autorizare: Acreditare
Documente atasate (2)
Lista | Salvare | Adauga

Colectie: LABORATOR APA SRL

Denumire: Acreditare

Autoritate emitenta: RENAR

Data start: 01.05.2017

Componenta comisie:

Valid:

Nr document: LI 591

Data: 01.05.2017

Cost autorizare: 11800

Data sfarsit: 13.09.2019

Observatii:

**Incerari**

Copy | Print | Coloane vizibile | CSV | PDF | Incarcare | Editare | Adaugare | Stergere

Caută:

Incerare	Cod standard	Standard
Determinarea continutului de amoniu - UZATA	SR ISO 7150-1:2001 IS-01-06	Calitatea apei. Determinarea continutului de amoniu. Partea 1: Metoda spectrometrica manuala
Determinarea consumului chimic de oxigen - UZATA	SR ISO 6060:1996 IS-03-01	Calitatea apei. Determinarea consumului chimic de oxigen
Determinarea amoniacului si dioxidului de carbon din aer	SR EN 45544-1:2002	Atmosfera la locul de munca. Aparatura electrica utilizata pentru detectarea directa a vaporilor și a gazelor toxice si masurarea directa a concentratiei acestora. Partea 1: Cerinte generale si metode de incercare
Determinarea continutului de clorura de sodiu	REGULAMENTUL 152/2009	REG.(CE)152/2009 AL COMISIEI din 27 .01.2009 de stabilire a metodelor de eșantionare și analiză pentru controlul oficial al furajelor
Determinarea continutului de proteina bruta	REGULAMENTUL 152/2009	REG.(CE)152/2009 AL COMISIEI din 27 .01.2009 de stabilire a metodelor de eșantionare și analiză pentru controlul oficial al furajelor


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# Laborsoft-LIMS

## ORDER INTRODUCTION WINDOW

Comanda - LIMS

Not secure | 52.58.185.52:8095/Ord/Details/31

Rapoarte de Incercari | Dashboard - LIMS | Comenzi - LIMS | Clienti - LIMS | Standarde - LIMS | Autorizari - LIMS | Fise de prelevare - LIMS | Planuri de prelevare | Fise de lucru - LIMS

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Lista >> Comanda

Comanda serie A01 nr. 14 status: Prelevare

Informatii suplimentare | Documente atasate | Proforma | Lista proforme

Lista | Salvare | Adauga | Tiparire | Optiuni

Serie/Nr: A01 14

Sediu central: SC AUCHAN ROMANIA SA

Client: Alege...

Punct de lucru: Laborator monitorizare mediu

Numar client: 15

Data client: 30.01.2018

Data: 30.01.2018

Data start: 31.01.2018

Data sfarsit: 31.01.2018

Mod livrare: x Predare in locatia clientului

Termen solicitat: 10

Termen raport: 21

Interpretare rez.: Interpretare 1

Incadrare rez.:

Tip plata: OP la termen

Interna:

Observatii

Probe | Servicii

Copy | Print | Coloane vizibile | CSV | PDF | Incarcare | Editare | Adaugare | Stergere

Caută:

Pozitie	Prel. client	Data prelevare	Proba	Termen prel.	Valoare	Status
1	<input type="checkbox"/>	31.01.2018	Apa potabila	0		In Prelevare
2	<input type="checkbox"/>	31.01.2018	Apa uzata	0		Comanda

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Etichete inserate autoadezive, pt laboratoare

Imprimante pentru etichete autoadezive

Cititoare de coduri de bare pentru laboratoare de mediu integrate cu LIMS



## MODEL COMANDA ANALIZE – FORMAT COMPACT

SC Laborator Constructii SRL

CIF: RO10111213  
Adresa: Bd. Constructorilor Nr.1  
Tel: 0213186694  
Email: contact@constr.ro



### COMANDA ANALIZE

Serie / Numar/ Data

**1CM / 3**  
**19.03.2018**

#### 1. Identificare solicitant/client:

Denumire:	SC BUILDING SRL	Punct de lucru:	SC BUILDING SRL
Adresa:	Buzau, Str. Independentei, Nr.1	Adresa:	Buzau, Str. Independentei, Nr.1
CIF – CUI:	16054368	CIF:	16054368
Tel:	0238725431	Pers contact/Functie:	DANIELESCU DANIEL/Proiect Manager
		Tel:	0238725431
		E-mail:	

#### 2. Identificare comanda la client

Serie/Numar: 2  
Data: 07.02.2018

#### 3. Prelevare

Client/Laborator: Conform detalieri

#### 4. Informatii suplimentare furnizate de client

Data start:	19.03.2018	Mod de livrare:	Curierat rapid - Cargus
Data sfarsit:	03.04.2018	Incadrare rezultate:	Nu
Termen solicitat:	0	Plata:	OP la termen
Info Suplimentar	Denumire lucrare: Reabilitare DN Constructor: SC COM CONSTRUCT SRL Nr/data contract: 154/P001/01.12.2017		

#### 5. Probe / Analize solicitate

5.1 Tip proba/cantitate:

**Mixtura asfaltica 1**

Data: 24.04.2018

Prelevare client: Nu

Adresa: Zarnesti, BRASOV,

Contraproba: Da /2020-04-24

GPS: 45°34'40.7" 25°23'00.8"

Nr crt	Cod / Denumire Incercare	Cod / Denumire Standard	Cant
1	<b>008</b> Determinarea absorbtiei de apa - epruveta cilindrica	<b>IND AND 605/2014</b> Mixturi asfaltice executate la cald. Conditii tehnice privind proiectarea, prepararea si punerea in opera.	1
2	<b>001</b> Determinarea granulozitatii-Analiza granulometrica prin cernere*	<b>SR EN 933-1:2012</b> Incerari pentru determinarea caracteristicilor geometrice ale agregatelor. Partea 1: Determinarea granulozitatii. Analiza granulometrica prin cernere	1
Total:			<b>2</b>

5.2 Tip proba/cantitate:

**Beton 3**

Data: 24.04.2018

Prelevare client: Nu

Adresa: Zarnesti, BRASOV,

Contraproba: Nu

GPS: 45°34'55.4" 25°24'48.6"

Nr crt	Cod / Denumire Incercare	Cod / Denumire Standard	Cant
1	<b>009</b> Determinarea densitatii betonului intarit*	<b>SR EN 12390-7:2009</b> Incerare pe beton intarit. Partea 7: Densitatea betonului intarit	1
2	<b>007</b> Determinarea rezistentei la	<b>SR EN 12390-3:2009/AC:2011</b> Incerare pe beton intarit. Partea 3: Rezistenta la	3

Editat LaborSoft-LIMS Pagina: 1 / 2 Tiparit: 24.04.2018 08:52:09

SC Laborator Constructii SRL

CIF: RO10111213  
 Adresa: Bd. Constructorilor Nr 1  
 Tel: 0213186694  
 Email: contact@constr.ro



## COMANDA ANALIZE

Serie / Numar/ Data

**1CM / 3**  
**19.03.2018**

compresiune a epruvetelor cubice din beton*	compresiune a epruvetelor	Total:	<b>4</b>
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5.3 Tip proba/cantitate:

**Agregate**

**6**

Data: 24.04.2018

Prelevare client: Nu

Adresa: Zarnesti, BRASOV,

Contraproba: Nu

GPS: 45°35'06.9" 25°25'37.9"

Nr crt	Cod / Denumire Incercare	Cod / Denumire Standard	Cant.
1	<b>001</b> Determinarea granulozitatii-Analiza granulometrica prin cernere*	<b>SR EN 933-1:2012</b> Incerari pentru determinarea caracteristicilor geometrice ale agregatelor. Partea 1: Determinarea granulozitatii. Analiza granulometrica prin cernere	1
Total:			<b>1</b>

Incerarile / Derminarile marcate cu \* sunt acreditate **RENAR**. Certificat de **Acreditare RENAR NR 3205 / 24.11.2017** cu valabilitate **24.11.2017 - 24.11.2022**.

### 6. Incheiere comanda

Laborant:  
 Sef laborator:

