

Sample accessioning with 1D, 2D barcoding or RFID to keep a track of sample throughout its life-cycle

Showing 1 to 13 of 13 entries

Equipment: Instrument Calibration and Maintenance

Track your equipment and its components along with calibration status

Update Equipment Information

General Information

Instrument ID	<input type="text" value="HPLC_2"/>	Custodian *	<input type="text" value="M_ADMIN"/>
Instrument Name	<input type="text" value="Agilent 1220 Infinity II LC System"/>	Custodian Name	<input type="text" value="Master Admin"/>
Instrument ID [External]	<input type="text"/>	Activated Alarms	<input type="text"/>
Type	<input type="text" value="HPLC system"/>	Associated Components	<input type="text"/>
Status	<input type="text" value="Active"/>		

Purchase Information

Serial Number	<input type="text" value="1220"/>	Bill No.	<input type="text"/>
Manufacturer / Maker	<input type="text" value="Agilent"/>	Warranty	<input type="text"/>
Model Name / No.	<input type="text" value="1220 Infinity"/>	Installed Date	<input type="text"/>
Purchased Date	<input type="text" value="11 Dec, 2018"/>		

Calibration Information

Last Calibration Date	<input type="text" value="12 Dec, 2018"/>	Remarks_Cal	<input type="text"/>
Next Calibration Date	<input type="text" value="26 Sep, 2019"/>	Expired	<input type="text" value="No"/>
Remind Before Next Calibration Date (Days)	<input type="text" value="5"/>		

Maintenance Information

Last Maintenance Date	<input type="text" value="04 Dec, 2017"/>	Remind Before Next Maintenance Date (Days)	<input type="text" value="5"/>
Service Provider	<input type="text"/>	Remarks_Mnt	<input type="text"/>

List of Available Data

Component Type:

Context Search

Attribute: Contains:

Please select component IDs to link with the instrument:

Show entries

<input checked="" type="checkbox"/>	Component ID	Component ID [External]	Type	Status	Custodian
<input checked="" type="checkbox"/>	COM_1	Agilent InfinityLab Poroshell 120 EC-C18	HPLC Components	Active	M_ADMIN
<input checked="" type="checkbox"/>	COM_2	Agilent 1220 Infinity II LC Gradient System VL	HPLC Components	Active	M_ADMIN
<input checked="" type="checkbox"/>	COM_3	Agilent OpenLAB CDS VL Workstation	HPLC Components	Active	M_ADMIN

Showing 1 to 3 of 3 entries

Equipment: Assigning Competent Staff

Assigning of instruments to competent analyst

View Equipment Information

General Information

Instrument ID : HPLC_1
Instrument Name : Agilent HPLC
Instrument ID [External] : 0001847HPLC AGH
Type : HPLC
Status : Active
Custodian : M_ADMIN
Custodian Name : Master Admin
Activated Alarms : Calibration
Associated Components : COMP_1
Calibration History : [Link](#)
Maintenance History : [Link](#)

Purchase Information

Serial Number : 789
Manufacturer/Maker : Agilent
Model Name/No. : GHX594
Purchased Date : 31 Jul, 2014
Bill No.
Warranty
Installed Date

Calibration Information

Calibration Performed By : M_ADMIN
Last Calibration Date : 01 May, 2019
Next Calibration Date : 10 Jul, 2019
Remind Before Next Calibration Date (Days)
Calibration Result
Expired

List of Available Data

Context Search

Attribute: Address Contains: Input Search Criteria... Search for Multiple Values Delimiter: Comma Reset

Select user(s):

Show 10 entries

<input type="checkbox"/>	User ID	Full Name	User Group	Competent	Login Status	User Category
<input type="checkbox"/>	M_ADMIN	Master Admin	Admin Group	No	Active	Licensed User
<input type="checkbox"/>	USR_1	Sam J	Group ABC	Yes	Active	Licensed User
<input type="checkbox"/>	USR_2	Jonny Bairstow	Admin Group	No	Active	Licensed User
<input type="checkbox"/>	USR_3	Pam1 Cheng	CBA Group	Yes	Active	Licensed User

Showing 1 to 4 of 4 entries

Note: Inactive (login status) User/Staff will not be able to login.

Select

Cancel

Test and Calibration Methods: Associating Docs

Easily access the appropriate instructions for operation, handling of instruments and testing samples to ensure the personnel is using only latest/compliant methods

The screenshot displays the CloudLIMS Enterprise web application. The top navigation bar includes the 'Test' icon and a sidebar with various tool icons. The main content area shows a table of test results for 'Cannabis Testing' with columns for Test ID, Test Name, Technician ID, Type, Sample ID, Sample Testing Status, Sample-Test Runs, Test Category, Technician Name, Chain of Custody, Test Chronology, Next Test, Previous Test, and Associated. A 'List of Available Data' dialog box is open, showing a search for documents. The dialog includes a 'Context Search' section with an 'Attribute' dropdown set to 'Activated Alarms' and a 'Contains' input field. Below this, a table lists available documents with columns for Document ID, Document Name, and Type. Document 'DOC_8' (SOPV5.pdf) is selected. The dialog also shows 'Showing 1 to 4 of 4 entries' and 'Showing 1 to 20 of 20 entries' for the main table.

Test ID	Test Name	Technician ID	Type	Sample ID	Sample Testing Status	Sample-Test Runs	Test Category	Technician Name	Chain of Custody	Test Chronology	Next Test	Previous Test	Associated
1	CANN_28	USR_2	Cannabis Testing_Cannabinoids	EDBL_13	Completed	Link	Quantitative	Jonny Balrston	CoC	Link			Reagents_1
2	CANN_27	M_ADMIN	Cannabis Testing_Cannabinoids	EDBL_12	Completed	Link	Quantitative	Master Admin		Link			Reagents_1
3	CANN_26	M_ADMIN	Cannabis Testing_Cannabinoids		Completed	Link	Quantitative	Master Admin					
4	CANN_25	M_ADMIN	Cannabis										
5	CANN_25	M_ADMIN	Cannabis										
6	CANN_24	M_ADMIN	Cannabis										Reagents_1
7	CANN_23	M_ADMIN	Cannabis										Reagents_1
8	CANN_22	M_ADMIN	Cannabis										Reagents_1
9	CANN_21	M_ADMIN	Cannabis										Reagents_1
10	CANN_20	M_ADMIN	Cannabis										Reagents_1
11	CANN_19	M_ADMIN	Cannabis										Reagents_1
12	CANN_18	M_ADMIN	Cannabis										Reagents_1
13	CANN_18	M_ADMIN	Cannabis										Reagents_1
14	CANN_17	M_ADMIN	Cannabis										Reagents_1
15	CANN_16	M_ADMIN	Cannabis										Reagents_1
16	CANN_16	M_ADMIN	Cannabis										Reagents_1
17	CANN_16	M_ADMIN	Cannabis										Reagents_1
18	CANN_16	M_ADMIN	Cannabis										Reagents_1
19	CANN_6	M_ADMIN	Cannabis										Reagents_1
20	CANN_6	M_ADMIN	Cannabis										Reagents_1

Showing 1 to 20 of 20 entries

CloudLIMS Enterprise
Master Admin
Last Login: Aug 30 2019 09:46:55 AM

Test Group: Cannabis Testing Test Code: Cannabinoids

Show 50 entries

List of Available Data

Documentation Type: Document

Context Search

Attribute: Activated Alarms Contains: Input Search Criteria

Please select document ID to link:

Show 10 entries

Document ID	Document Name	Type
DOC_3	The Difference Between Digital Signatures and Electronic Signatures.pdf	Document
DOC_4	MicroBio_img_006.jpg	Document
DOC_5	sentinelcannatonic.pdf	Document
DOC_8	SOPV5.pdf	Document

Showing 1 to 4 of 4 entries

Select Cancel

CloudLIMS
owering Labs

Measurement Traceability: Manage QC Samples

Manage quality control samples and their results to detect trends

Result Entries

Associated Samples

#	Sample ID	Sample ID [External]	Sample Status	Sample Type	Associated Analytes	QC Sample?
1	EDBL_10	EDBL_4	Under Testing	Edibles	other^ pests^ stems	
2	EDBL_12	EDBL_2	Under Testing	Edibles	other^ pests^ stems	
3	qs_1		Under Testing	QC Sample	other^ pests^ stems	QC Sample

Flagging Sets

Test Results For Sample ID: qs_1

☐ Update

Quantity to be Deducted

Total Consumed ml

Current Quantity: ml

Test Analyte Runs

Test Runs: QC Sample Analyte Template

<input type="checkbox"/>	#	Analyte Group	Flagging Set Name	Analyte Name *	Test Run Number	Observed Value	Unit
<input type="checkbox"/>	1	foreign_matter		other	1	0.3	CFU-GM
<input type="checkbox"/>	2	foreign_matter		pests	1	10	%Volume
<input type="checkbox"/>	3	foreign_matter		stems	1	0.8	CFU/ml

Turnaround Time Status

Save Results

Cancel

Associated Instruments: Testing the Quality of Results

At the time of association of an instrument with a test, indicate that the instrument was properly calibrated before test was conducted

The screenshot displays the CloudLIMS Enterprise software interface. At the top, the header shows 'CloudLIMS Enterprise' and 'Master Admin' with a last login time of 'Aug 30 2019 09:58:31 AM'. Below the header, there's a 'Test' section with a toolbar and filters for 'Test Group: Cannabis Testing' and 'Test Code: Cannabinoids'. A table lists 21 test entries, each with a 'Test ID', 'Test Name', 'Associated Instruments', 'Technician ID', 'Type', 'Sample Testing Status', 'Sample ID', 'Sample-Test Runs', 'Technician Name', 'Chain of Custody', 'Test Category', 'Test Chronology', and 'Next Test'. An 'Associated Instruments' pop-up window is open, showing a table of instruments associated with the selected test. The table includes columns for '#', 'Instrument ID', 'Instrument ID (External)', 'Type', 'Status', 'Custodian', 'Purchased Date', and 'Activated Alarms'. The first entry shows 'HPLC_1' with '0001847HPLC AGH' as the external ID, 'HPLC' type, 'Active' status, 'M_ADMIN' custodian, '2014-07-31' purchase date, and 'Calibration' activated alarms. The bottom of the interface shows 'Showing 1 to 21 of 21 entries' and navigation buttons.

Test ID	Test Name	Associated Instruments	Technician ID	Type	Sample Testing Status	Sample ID	Sample-Test Runs	Technician Name	Chain of Custody	Test Category	Test Chronology	Next Test
1	CANN_29	HPLC_1								Quantitative	Link	
2	CANN_28	HPLC_1								Quantitative	Link	
3	CANN_27	HPLC_1								Quantitative	Link	
4	CANN_26									Quantitative	Link	
5	CANN_25									Quantitative	Link	
6	CANN_25									Quantitative	Link	
7	CANN_24	HPLC_1								Quantitative	Link	
8	CANN_23	HPLC_1								Quantitative	Link	
9	CANN_22	HPLC_1								Quantitative	Link	
10	CANN_21	HPLC_1								Quantitative	Link	
11	CANN_20	HPLC_1								Quantitative	Link	
12	CANN_19	HPLC_1								Quantitative	Link	
13	CANN_18									Quantitative	Link	
14	CANN_18									Quantitative	Link	
15	CANN_17									Quantitative	Link	
16	CANN_16									Quantitative	Link	
17	CANN_16									Quantitative	Link	
18	CANN_16									Quantitative	Link	
19	CANN_16									Quantitative	Link	
20	CANN_6		M_ADMIN		Completed			Master Admin		Quantitative	Link	
21	CANN_6		M_ADMIN		Completed			Master Admin		Quantitative	Link	

#	Instrument ID	Instrument ID (External)	Type	Status	Custodian	Purchased Date	Activated Alarms
1	HPLC_1	0001847HPLC AGH	HPLC	Active	M_ADMIN	2014-07-31	Calibration

Showing 1 to 1 of 1 entries

Reporting Test Results to Clients

Manage test results, generate CoA and send it to clients

Result Entries

#	Sample ID	Sample ID [External]	Sample Status	Sample Type	Associated Analytes	QC Sample?
1	EDBL_13	EDBL_1	Under Testing	Edibles	cbd* cbda* cbg* cbn* thca* thc*	

Flagging Sets :

Test Results For Sample ID: EDBL_13

☐ Update

Quantity to be Deducted

0

Total Consumed

0

 ml

Current Quantity:

2

 ml

Test Analyte Runs

Test Runs:

#	Analyte Group	Analyte Name *	Iod	Ioq	Amount (%)	Amount (m
<input checked="" type="checkbox"/> 1	cannabinoids	cbd	0.03	0.04	3	Error
<input type="checkbox"/> 2	cannabinoids	cbda	0.1	0.1	10	Error
<input type="checkbox"/> 3	cannabinoids	cbg	0.08	0.01	8	Error
<input type="checkbox"/> 4	cannabinoids	cbn	0.06	0.07	6	Error

Turnaround Time Status

Sample Testing Start Date :

Turnaround Time Threshold :

30

Sample Testing Completion :

Turnaround Time Status :

Save Results

Cancel

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Generate Reports with Authorized Signatures

Digital signature with the name, designation and the date of signing

CloudLIMS Enterprise Master Admin Last Login: Jul 26 2019 05:15:54 PM

Test Group: Cannabis Testing Test Code: Cannabinoids

Generate Report

Actual Size W: 150 H: 150 Left Margin: 20 Top Margin: 2 Image Position: End of Report

Legend/ Caption: 9 Alignment: Center

Signature

☒ Include Signature

Title 1: Dr. Name: John Smith Role: Lab Director Institution/ Address: ID#: Current Date: ☒ Current Date

☒ Include Signature

Title 2: Dr. Name: Joanna Black Role: Head of Department Institution/ Address: CN Testing ID#: Current Date: ☒ Current Date

☐ Add Signature at Page Bottom OR Empty Space Before Signature (inches): 5

Note: Signature upload will be effective corresponding to the current selected template only.

User Note Section

#	Section Title	Description	Position	Alignment	Font Size
1	DISCLAIMER	All Tests are conducted by Cannabis Testing.	After Data Table	Left	8

Report Attributes

* Fields are Mandatory

Generate Report Cancel

Dedicated Section for Audit Trail

Manage complete audit trail of each activity along with a date & time stamp

CloudLIMS Enterprise

Master Admin
Last Login: Jul 02 2019 02:33:43 PM

Home Dashboard Tasks Alerts (16) Audit Trail

View Import Data Log

View: Current Show All Selective Display: From To Select User: All Select Module: All Audit Trail: Regular PHI Show

Show 50 entries First Previous 2 3 4 5 Next Last

	Activity ID	Activity Date/ Time	Attribute Name	Module Name	ID	Action Performed	Original Value	Current Value	Updated By	Reason
1	ACT_2487	02 Jul, 2019 [05:55:58 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
2	ACT_2486	02 Jul, 2019 [02:33:43 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
3	ACT_2485	01 Jul, 2019 [11:37:05 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
4	ACT_2484	01 Jul, 2019 [11:36:48 PM GMT+05:30]	User ID	User Management	Hosp_2	Logged Out			Hosp_2 (Patanjal Roy)	
5	ACT_2483	01 Jul, 2019 [11:34:39 PM GMT+05:30]	User ID	User Management	Hosp_2 (Full Name : Patanjali Roy)	Logged In			Hosp_2 (Patanjal Roy)	
6	ACT_2482	01 Jul, 2019 [11:34:04 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged Out			M_ADMIN (Master Admin)	
7	ACT_2481	01 Jul, 2019 [11:32:21 PM GMT+05:30]	Client ID	Client Management	Hosp_2 (First Name : Patanjali)	Added			M_ADMIN (Master Admin)	
8	ACT_2480	01 Jul, 2019 [11:20:08 PM GMT+05:30]	Test Results Validation Status	Test Management	BCHT_13 (Sample ID : BLD_34)	Updated	Validation Pending	Approved	M_ADMIN (Master Admin)	
9	ACT_2479	01 Jul, 2019 [11:19:39 PM GMT+05:30]	Test Results Validation Status	Test Management	BCHT_13 (Sample ID : BLD_34)	Updated		Validation Pending	M_ADMIN (Master Admin)	
10	ACT_2478	01 Jul, 2019 [10:47:24 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
11	ACT_2477	01 Jul, 2019 [10:47:20 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged Out			M_ADMIN (Master Admin)	
12	ACT_2476	01 Jul, 2019 [10:46:34 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
13	ACT_2475	01 Jul, 2019 [09:46:14 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged Out			M_ADMIN (Master Admin)	
14	ACT_2474	01 Jul, 2019 [09:37:49 PM GMT+05:30]	User ID	User Management	M_ADMIN (Full Name : Master Admin)	Logged In			M_ADMIN (Master Admin)	
15	ACT_2473	01 Jul, 2019 [03:53:58 PM GMT+05:30]	Test Results Validation Status	Test Management	STQ_3 (Sample ID : Soil_5)	Updated	Validation Pending	Approved	M_ADMIN (Master Admin)	
16	ACT_2472	01 Jul, 2019 [03:53:16 PM GMT+05:30]	Test Results Validation Status	Test Management	STQ_3 (Sample ID : Soil_5)	Updated		Validation Pending	M_ADMIN (Master Admin)	

How? ISO/IEC 17025 Management Requirements

Pertain to the operation and effectiveness of the quality management system within the laboratory

Control of Records



Document Control



Internal Audits



Control of Records: Chain of Custody - Sample

Track the entire chain of custody for all your samples

The screenshot displays the CloudLIMS Enterprise web application. The top navigation bar includes the logo, user name 'Master Admin', and last login time 'Jul 31 2019 07:05:41 PM'. The main content area shows a list of samples with columns for Sample ID, Status, Cart Status, Chain of Custody, Sample Category, Parent ID, Sample ID [External], Barcode ID, Custodian Name, Custodian, Barcode Image, Initial Quantity, Initial Quantity-Unit, Current Quantity, and Current. A modal window titled 'Chain of Custody Log for 'BChT_11'' is open, showing a table of custody activities.

CloudLIMS Enterprise

Master Admin
Last Login: Jul 31 2019 07:05:41 PM

Samples

Sample Type: Edibles Sample Filter: 9 selected

Show 50 entries

Sample ID	Status	Cart Status	Chain of Custody	Sample Category	Parent ID	Sample ID [External]	Barcode ID	Custodian Name	Custodian	Barcode Image	Initial Quantity	Initial Quantity-Unit	Current Quantity	Current
1 EDBL_6			CoC	Sample	ISS	EDBL_6	Sam J	USR_1			0	ml	0	ml
2 EDBL_5			CoC											
3 EDBL_4			CoC											
4 EDBL_3			CoC											
5 EDBL_2			CoC											
6 EDBL_1			CoC											

Showing 1 to 6 of 6 entries

Chain of Custody Log for 'BChT_11'

Export as:

S. No.	Activity Date/ Time	Updated By	Action Performed	Attribute Name	Original Value	Current Value	In Change Value	Current Location	Reason
1	06 Jun, 2019 [04:36:19 PM GMT+05:30]	Master Admin	Transferred	Custodian	M_ADMIN	USR_1			
2	05 Jul, 2019 [03:14:35 PM GMT+05:30]	Master Admin	Transferred	Custodian	USR_1	USR_2			
3	05 Jul, 2019 [03:15:27 PM GMT+05:30]	Master Admin	Transferred	Custodian	USR_2	USR_1			
4	05 Jul, 2019 [03:15:48 PM GMT+05:30]	Master Admin	Transferred	Custodian	USR_1	M_ADMIN			

Close

Control of Records: Chain of Custody - Test

Track the entire chain of custody for all the Tests Performed

View Test Information

Created By	M_ADMIN	Associated Samples	HCCLDS_22
Description		Associated Inventories	Reagents_1, Reagents_3
Completion Date		Associated Request ID	HEMP_TESTING_12
Created On	14 Aug, 2019	Associated Samples [External ID]	
Type	Cannabis Testing_Cannabinoids	Test ID [External]	
Group	Cannabis Testing	Trace Log	Log
Code	Cannabinoids	Associated Instruments	HPLC_1
		Associated Documents	Link

▼ Custodial Information

Technician ID	USR_2	Chain of Custody	CoC
Technician Name	Jonny Bairstow	Reviewer ID	M_ADMIN

▼ Turnaround Time Alarm



Remind Before Turnaround Time Threshold (Days)	
--	--

▼ Test Details

Processing Notes		Rejection Criteria	
Container Type		Patient Prep	
Synonyms			

[Attachments...](#)

Chain of Custody Log for "CANN_28"

Export as:  

S. No.	Activity Date/ Time	Updated By	Action Performed	Attribute Name	Original Value	Current Value	In Change Value	Current Location	Reason
1	23 Aug, 2019 [03:41:55 PM GMT+05:30]	Master Admin	Transferred	Custodian	M_ADMIN	USR_1			
2	23 Aug, 2019 [03:42:02 PM GMT+05:30]	Master Admin	Transferred	Custodian	USR_1	USR_2			

Close

Document Control

Maintain and track all documents, and maintain version control, helps to meet ISO 9001 certification requirements as well

The screenshot displays the CloudLIMS Enterprise web application interface. The top navigation bar includes a hamburger menu, the CloudLIMS Enterprise logo, and user information for Master Admin with a last login of Jul 02 2019 18:42:17. Below the navigation bar, the 'Documentation' section is active, showing a list of documents on the left and a detailed view of 'CL_DS-833.1_Add_Instrument.odt' on the right. The right-hand view includes tabs for 'Properties' and 'History', with the 'History' tab selected. It displays a 'Document Version History' section with a 'Document Trace Log' link and a table of document versions.

Document Version History

[Document Trace Log](#)

Show 10 entries

Document Name	Replaced On	Replaced By	Document Size [in KBs]	Version#	Comments
CL.odt	2019-07-03 16:03:44	M_ADMIN	21.03 KB	1	
CL_DS-833.1_Add_Instrument.odt	2019-07-03 16:04:18	M_ADMIN	190.74 KB	2	
CL_DS-I406_Version control of Doc.odt	2019-07-03 16:05:08	M_ADMIN	168.44 KB	4	
CL_DS-I407_Association of doc with test and sample.odt	2019-07-03 16:04:34	M_ADMIN	227.6 KB	3	

Showing 1 to 4 of 4 entries

Internal Audit: Audit Trail

Maintaining internal audit of laboratory using a LIMS

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Home

Dashboard

Tasks

Alerts (1)

Audit Trail

CloudLIMSEnterprise

Master Admin
Last Login: Feb 05 2019 04:10:53 AM

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View Import Data Log

View: Current

Show All

Selective Display:

From

To

Select User: All

Select Module: All

Show

Show 50 entries

12345NextLast

	Activity ID	Activity Date/Time	Attribute Name	Module Name	ID	Action Performed	Original Value	
1	ACT_380	05 Feb, 2019 [05:51:30 AM GMT]	Vendor	Inventory Management	DR_1 (Item Name : Silylation Sampler Kit)	Updated	Supelco	Supelco S
2	ACT_379	05 Feb, 2019 [05:51:21 AM GMT]	Vendor	Inventory Management	DR_3 (Item Name : BSA Derivatization Grade)	Updated	Vendor 2	Supelco S
3	ACT_378	05 Feb, 2019 [05:51:13 AM GMT]	Vendor	Inventory Management	DR_5 (Item Name : BSTFA, Derivatization Grade for GC derivatization)	Updated	Vendor 4	Supelco S
4	ACT_377	05 Feb, 2019 [05:51:07 AM GMT]	Vendor	Inventory Management	DR_4 (Item Name : Boron trifluoride-methanol solution)	Updated	Vendor 6	Supelco S
5	ACT_376	05 Feb, 2019 [05:50:55 AM GMT]	Vendor	Inventory Management	DR_6 (Item Name : BSTFA + TMCS, 99:1)	Updated	Vendor 3	Supelco S
6	ACT_375	05 Feb, 2019 [05:50:49 AM GMT]	Vendor	Inventory Management	DR_2 (Item Name : N-Methyl-N-(trimethylsilyl)trifluoroacetamide)	Updated	Vendor 2	Supelco S
7	ACT_374	05 Feb, 2019 [05:47:38 AM GMT]	Vendor	Inventory Management	DR_1 (Item Name : Silylation Sampler Kit)	Updated		Supelco
8	ACT_373	05 Feb, 2019 [05:44:34 AM GMT]	Item ID	Inventory Management	DR_6 (Item Name : BSTFA + TMCS, 99:1)	Added		
9	ACT_372	05 Feb, 2019 [05:42:20 AM GMT]	Item ID	Inventory Management	DR_5 (Item Name : BSTFA, Derivatization Grade for GC derivatization)	Added		
10	ACT_371	05 Feb, 2019 [05:41:29 AM GMT]	Item ID	Inventory Management	DR_4 (Item Name : Boron trifluoride-methanol solution)	Added		
11	ACT_370	05 Feb, 2019 [05:40:39 AM GMT]	Item ID	Inventory Management	DR_3 (Item Name : BSA Derivatization Grade)	Added		
12	ACT_369	05 Feb, 2019 [05:39:39 AM GMT]	Item ID	Inventory Management	DR_2 (Item Name : N-Methyl-N-(trimethylsilyl)trifluoroacetamide)	Added		
13	ACT_368	05 Feb, 2019 [05:37:08 AM GMT]	Item ID	Inventory Management	DR_1 (Item Name : Silylation Sampler Kit)	Added		
14	ACT_367	05 Feb, 2019 [05:36:08 AM GMT]	Catalog Number	Inventory Management	M_ADMIN (Full Name : Master Admin)	Attribute Added		
15	ACT_366	05 Feb, 2019 [05:34:52 AM GMT]	Derivatization Reagents	Inventory Management	M_ADMIN (Full Name : Master Admin)	Sub Type Added		
16	ACT_365	05 Feb, 2019 [05:33:39 AM GMT]	Item ID	Inventory Management	SoL_1 (Item Name : Methanol)	Added		
17	ACT_364	05 Feb, 2019 [05:32:06 AM GMT]	Solvents	Inventory Management	M_ADMIN (Full Name : Master Admin)	Sub Type Added		
18	ACT_362	05 Feb, 2019 [05:07:57 AM GMT]	Last User Group Allowed	Sample Management	Flower_8 (Custodian : USR_1)	Updated	^Admin Group^	^Admin Gr

Advantages of Instrument Integration

Increased Data Accuracy



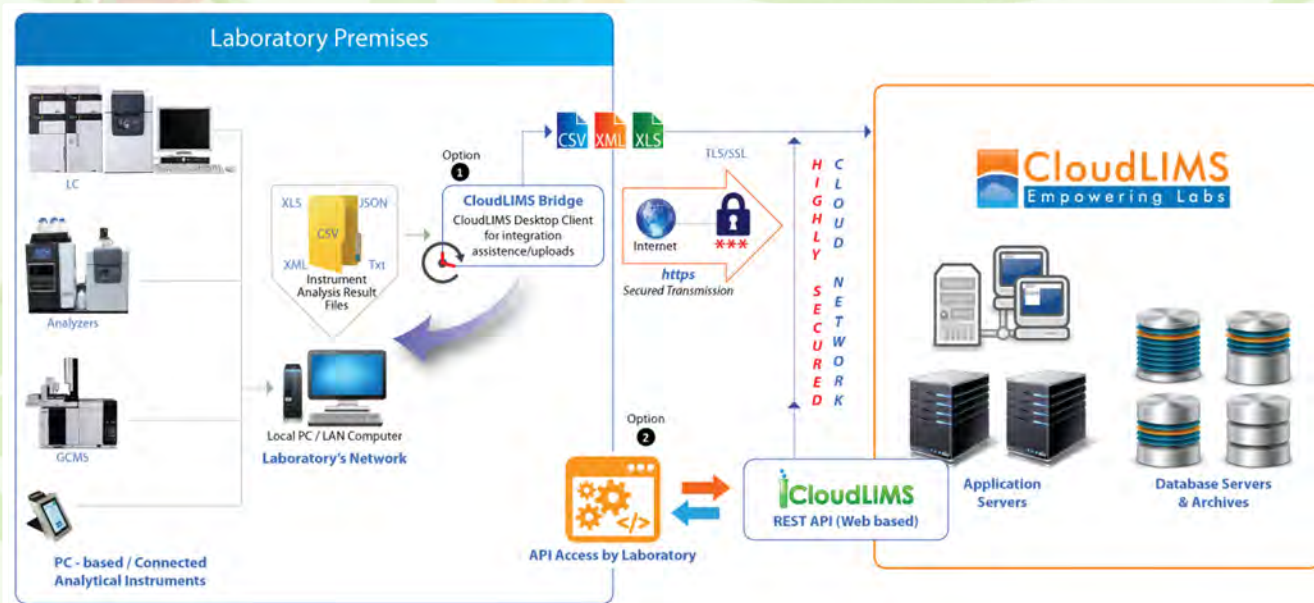
Decreased Cost of Business



Instrument Integration

A LIMS Supports:

- Automatic time scanned uploads of mapped CSV files
- Bidirectional data transfer using CloudLIMS web-based Rest API



Customized Food Testing CoAs Per Regulations

Ag Partners

Soybean Meal

Date:05/08/2020

Client Information

Bill To:

Sample Information

Sieve Number 8:	1	Sieve Number 12:	1	Sieve Number 16:	1
Sieve Number 20:	1	Sieve Number 30:	1	Sieve Number 40:	1
Sieve Number 50:	1	Sieve Number 70:	1	Sieve Number 100:	1
Sieve Number 140:	1	Sieve Number 200:	1	Sieve Number 270:	1
Pan:	1	Total Sample Weight:	14		

Test Information: Particle Size/ Micron

Test ID	Created By	Created On	Type	Sample ID	Group	Code	Test Category	Sample Locked Status
Micron_1	M_ADMIN	2020-03-18	Particle Size_Micron	PS_2	Particle Size	Micron	Quantitative	0

Analytes and Results: Particle Size/ Micron

Analyte Group	Analyte ID	Analyte Name	Apply to Existing Test-Sample Records
Default Analyte Group	ARQNMicron_1	Default Analyte	Yes
Micron Size Category	ARQNMicron_25	4745	Yes
Micron Size Category	ARQNMicron_26	3350	Yes
Micron Size Category	ARQNMicron_27	2360	Yes
Micron Size Category	ARQNMicron_28	1700	Yes
Micron Size Category	ARQNMicron_29	1180	Yes

Other Information

Sieve Number	Micron Size Category	Sample Weight	% Greater Than	% in Sieve
pan	37	12.400000000	0.0	0.12588832487309617

Date:05/08/2020

Sample ID: Corn_432



Sample Information

Type	Collection Date	Week Number
Corn	05/04/2020	17

Analytes and Results: Ingredients/ Ingredients_NIR

Analyte Name	Observed Value
Ash	
Moisture	15.06
Protein	7.30
Fiber	1.97
ADF	
NDF	
Starch	60.24
Fat	3.39

Josh Gordon
Swine Nutritionist
FTL 1470 XYZ Suite 7, CO 20634
05/08/2020

Customized Cannabis Testing CoAs Per State Regulations

CTL Certificate of Analysis

My Cannabis Lab, Plot No. 145, Sesame Street
Bridge-Highway Road, United States



Client Information

Client ID: GROWER_1 First Name: Mark Last Name: Jones Facility Name: Cannabis Growers Co.
Type: Growers Entry Date: 01 Apr, 2019 License Number: C12-11984783-MY
Address: 83, Park Avenue, CA Country: United States Email: mark@jones.com

Sample Information

Sample ID: HSEEDS_1 Sample ID [External]: AB-110101-#CZ Type: Hemp Seeds Current Quantity: 5
Batch ID: AB-1101 Current Quantity Unit: gm Custodian: M_ADMIN Collection Date: 27 Mar, 2019
Entry Date: 01 Apr, 2019 Associated Client: GROWER_1 Entry Time: 05:27:24 PM

Test Information: Cannabis Testing/ Cannabinoids

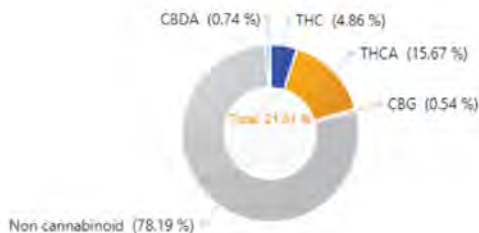
Test ID	Completion Date	Type	Group	Code
CANN_1	2019-04-01	Cannabis Testing_Cannabinoids	Cannabis Testing Cannabinoids	

Analytes and Results: Cannabis Testing/ Cannabinoids

Analyte Name	LOD ppm	LOQ ppm	Amount (%)	Amount (mg/g)
Cannabidiol (CBD)	0.01	0.04	ND	ND
Cannabidiolic Acid (CBDA)	0.29	0.67	0.7	7.1
Tetrahydrocannabinol (THC)	0.04	0.15	4.61	46.1
Tetrahydrocannabinolic Acid (THCA)	0.7	0.9	15.6	156
Cannabinol (CBN)	0.03	0.06	ND	ND
Cannabigerol (CBG)	0.04	0.12	0.54	5.4



Cannabinoid Profile



Analytes and Results: Cannabis Testing/ Terpenes

Analyte Name	Amount (mg/g)	Amount (%)	Status
valencene	0	0	ND
terpinolene	0	0	ND
nerol	0	0	ND
menthol	0	0	ND
isoborneol	0	0	ND
camphor	0	0	ND
camphene	0	0	ND
beta_caryophyllene	0	0	ND
alpha-pinene	0	0	ND

Analytes and Results: Cannabis Testing/ Pesticides PASS

Analyte Name	LOD (ug/g)	Amount (ug/g)	Status
spirotetramat	0.04	ND	Pass
spinosad	0.04	ND	Pass
pyrethrum	0.38	ND	Pass
paclobutrazol	0.043	ND	Pass
imidacloprid	0.04	ND	Pass
daminozide	0.04	ND	Pass
bifenazate	0.04	ND	Pass
acequinocyl	0.04	ND	Pass

Disclaimer

All Tests are conducted by Cannabis Testing Laboratory and validated under proper administrative regulations. Please report any discrepancy in the report to: info.mylabe@address.com

Dr. John Smith
Lab Director

01 Apr, 2019



Dr. Joanna Black
Chief Technician
CTL
01 Apr, 2019

CloudLIMS
Empowering Labs

How To Get ISO 17025 Accredited?

Plan, Document, Execute!

- Select an ISO 17025 compliant LIMS
- Select the accreditation body
- Application process
- Get accredited
- Accreditation maintenance



A hand is shown writing the words 'Action Changes Things' on a dark green chalkboard. Each word is preceded by a circled letter: 'A' for Action, 'C' for Changes, and 'T' for Things. The hand is holding a yellow chalk and is in the process of writing the final word.

OH-based F&B Testing Lab Was Sure to Pass the Audit, But..

“They embarked on the path to ISO 17025 accreditation using paper-based systems.”

“Unable to provide all the necessary documentation and validate their testing methods, FAILED the audit!”

- Could not account for the sample quantity received, tested, stored, disposed or expired
- Mismanaged the SOPs, and other documents like, staff training records due to the paper-based systems

LIMS Lead their Way, Success Followed!

With the help of LIMS, they cleared all audits thereafter:

1. Developed a draft scope of accreditation detailing what food analysis application(s) they intended to become accredited for.
2. Implemented all parts of the QMS including management structure, employee policies, quality assurance, laboratory procedures, records and other documentation, support programs, and a quality manual (if applicable).
3. Performed internal audits against the standard/checklist to verify that the laboratory meets all of the ISO/IEC 17025 requirements and is ISO compliant.
4. Conducted management review meetings to discuss issues and track/trend available laboratory data to show improvement and predict areas of concern.
5. Stored, maintained and updated all SOPs, and staff training records along with version control and a date and time stamp.

How to choose the right LIMS partner? (bonus)

SAMPLE MANAGEMENT SOFTWARE

Sample Management
Test Management
Instrument Integration
Reporting

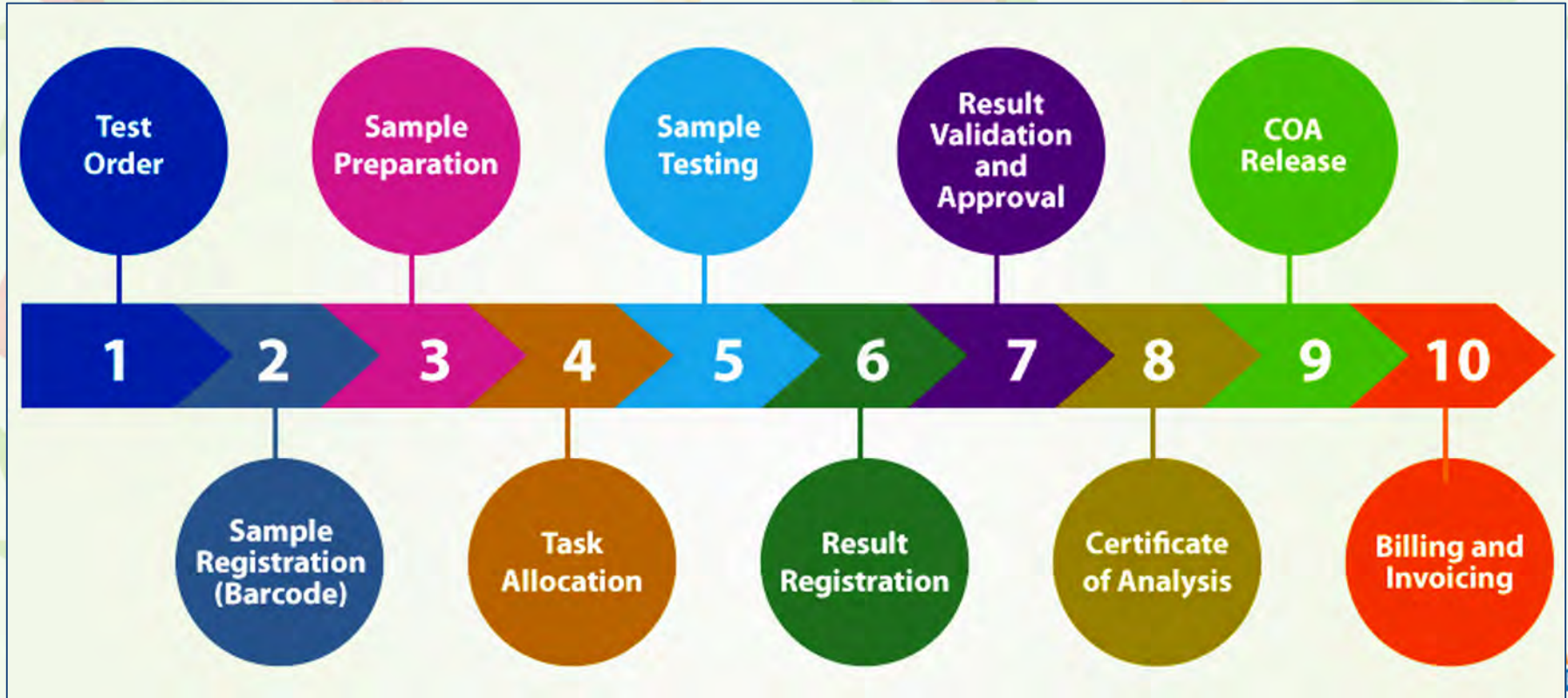
VS.

LIMS

Everything under Sample Management Software
+
Lab Inventory Management
Instrument Calibration and Maintenance Module
Package & Shipment Management
Sampling
Document Management
Staff Training Module
Trend Analysis

How to choose the right LIMS partner? (bonus)

Purposes of a LIMS in Full Action



How to choose the right LIMS partner? (bonus)

“Does your LIMS software fulfill the ISO 17025 requirements?”

- Control of Records: Chain of Custody
- Document Control
- Role Based Permission Level to Staff
- Purchasing Services & Supplies
- Internal Audit: Audit Trail
- Equipment: Instrument Calibration and Maintenance
- Equipment: Assigning Competent Staff
- Test and Calibration Methods: Associating Docs
- Measurement Traceability: Manage QC Samples
- Validate Test Results
- Associated Instruments: Testing the Quality of Results



How to zero-down on an accreditation body? (bonus)

Key Questions to Ask:

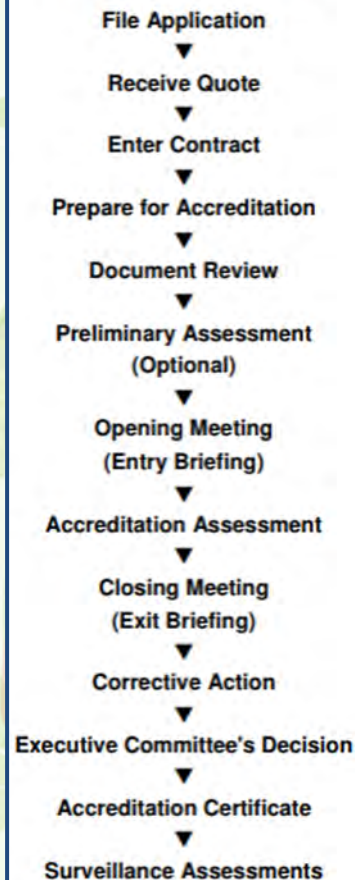
1. Does the accreditation body have assessors qualified to conduct assessments in your particular scope of calibration or testing?
1. Is the accreditation body willing to provide you with a complete description of its accreditation process? Find out if there are any policies or contract restrictions that may affect you.
1. Is the accreditation body recognized for its accreditation program? Check the credentials of the accreditation body. Refer to the International Laboratory Accreditation Cooperation (ILAC) listing of signatories at www.ilac.org.
1. Is the company financially stable? Will the accreditation body still be in business during the period that your accreditation certificate is valid?

The Process: ISO/IEC 17025:2017 Accreditation

Some of the specific factors used to assess technical competency include:

- Quality assessments of equipment
- Procedures used for performing calibration and testing
- Proper sampling practices
- Traceability of measurements to national standards
- Accurate recording and reporting procedures
- Personnel qualifications
- Suitable testing facilities

Steps to Accreditation



Life After Initial Accreditation

- Maintaining accreditation
- Re-assessment and evaluation
- Participate in relevant proficiency testing programs between reassessments
 - Further demonstration of technical competence
- Audits
- Continuous improvement
- Scope expansion



In Conclusion...

WHAT

is ISO 17025
Accreditation?



Most
Important
Regulatory
Challenge

WHY

does my lab need it?



Legal,
Credible,
Competitive

How

do I achieve it?



LIMS Makes it
Easy



Thank You

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+1-302-789-0447
support@cloudlims.com