

Micro



The LabSoft LIMS Micro module provides an encompassing solution for your microbiology (e.g. Listeria) testing requirements that will increase your sampling efficiency and accuracy and reduce your regulatory risk. This module includes configurable options that support A-Z functionality like true randomized sample site selection, scheduling, sample information entry, seamless communication to an external lab, automatic E-mail notification and complete customized reporting.

Load Balanced Sample Set Selection – Generate random sample set test schedules. The selection process uses a pre-determined time window to evenly balance testing of the sample set areas/zones. The sample sites within a sample set are randomly selected.

Non-Routine Test Scheduler – Schedule intensified sample testing when triggered from test results.

Action Items – Consistently monitor and record performed sample set action(s).

External Lab Interface – Ability to two-way interface with an external lab. This bi-directional data transfer increases the timeliness and accuracy of sample set test result data.

The screenshot shows two overlapping windows from the LabSoft LIMS Micro module. The background window is titled "Sample Set List" and displays a table of sample sets with columns for Sample Set #, Set Status, Over Limit?, Program, Step, Scheduled Date, Zone, Line, and Product. The foreground window is titled "Sample Set # 2004060005" and provides detailed information for a specific sample set, including Facility (ACME), Set Status (COMPLETE), Over Limit? (YES), Group (LENV), Program (ENV CONTACT), Step (1), Sample Date (07/09/2004), Root Set # (20040600005), Last Set #, Zone (ZONE 1), Line (0100), Product Classification (CLASSIFICATION TY), Set Positives (1), Total Sets (1), and Total Positives (1). It also includes a table of actions, with one action listed: 07/12/2004, CORRECTIVE, SANITIZER CHECK, SANITIZER CONCENTRATION WAS LOW.

The screenshot shows the "Sample Set Schedule : MICRO" window. It features a calendar view for July 2004, with columns for Sunday through Saturday. The calendar shows sample set testing schedules for various dates, such as 27, 28, 29, 30, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, and 26. A pop-up window titled "Schedule for: 07/13/2004" is overlaid on the calendar, showing a table of sample sets for that date:

Sample Set #	Set Status	Program	Step	Area	Zone	Line
20040600012	COMPLETE	ENV NON-CONT	1	MICRO	ZONE 2	NONE
20040600013	COMPLETE	ENV CONTACT	2	MICRO	ZONE 1	0100

Scheduling Calendar – View and filter the sample sets testing schedule. Manually adjust the sample set schedule.

Auto E-mail – Generate E-mail notices to a specified distribution list when certain events occur. E-mail messages can link to and run LabSoft LIMS. Possible E-mail event triggers:

- Positive (Out of Spec) test result is received
- Escalation to the next level of testing begins
- Test results are received from the external lab
- Routine testing has resumed

Micro




Report Generation –

Examples include:

- Sample Selection Sheet
- Bar Codes
- Labeling
- External Lab Requests
- Crystal Reports
- LabSoft LIMS' Query

Configurability –


Configuration allows LabSoft LIMS Micro to adapt to your developing needs. Examples include: adding your own fields and codes, E-mail messages, generated reports, and sample program setup. With sample program setup users have the ability to create and edit sample programs (e coli, salmonella, etc.) including the schedule sequence for intensified testing.



Microbiology Environment Sampling

Zone	ZONE 1	Scheduled Date	07/20/2004
Line	NONE	Sample Day	Tuesday
Sampled By	BOB	Program Name	Non-Contact Environment
		Sampled Date	07/21/2004

Sample Set: 20040600014



Bag	Type	Sample Number	Sample Site/Exact Location	Sample Time	SKU
1	F	2004000055 Site Zone: ZONE 1 Site Line: 0100 Elevation: 0-3	0100 Floor Drain	0900	NONE
2	R	2004000056 Site Zone: ZONE 1 Site Line: 0100 Elevation: 0-3	0100 Waste Container	0910	NONE
3	R	2004000057 Site Zone: ZONE 1 Site Line: 0100 Elevation: 3-9	0100 Cart	0920	NONE
4	A	2004000058 Site Zone: ZONE 1 Site Line: 0100 Elevation: 3-9	0100 Control Panel		

Type: P=Positive; F=Fixed; R=Random; A=Alternate

1) Fixed/Positive Site must be Sampled	4) SWAB sites after 3 hours of production
2) Random sites should be sampled if possible	5) SWAB a 2 foot by 2 food area
3) Sample Alternate site as substitute for Random site only if necessary	6) Label sample bag with corresponding bag number

Sample Information Entry

Sample Set #: 20040600014

Facility	ACME
Set Status	SAMPLED
Program	ENV NON-CONTACT
Step	1
Sample Date	07/21/2004
Zone	ZONE 1
Line	NONE
Product Classification	NONE
Scheduled Date	07/20/2004
Sampled By	BOB
Sample Sheet	SampleSet-20040600014.pdf

Deviation Reason

SAMPLE SET WAS SCHEDULED FOR 7/20/2004

DUE TO MAINTENANCE:

SAMPLE SET WAS ACTUALLY TAKEN ON 7/21/2004

Samples: Sample #: Samples Req'd: 3 Samples Taken: 3

#	Sample #	Site ID	Description	Sample Type	Sample Status	Sampled	Not Sampled	Sample Time
1	2004000055	SITE 0001	0100 Floor Drain	FIXED	SAMPLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0900
2	2004000056	SITE 0009	0100 Waste Container	RANDOM	SAMPLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0910
3	2004000057	SITE 0006	0100 Cart	RANDOM	SAMPLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0920
4	2004000058	SITE 0007	0100 Control Panel	ALTERNATE	NOT SAMPLED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Document Encapsulation –

Ability to scan, store, and view related documents. Supports any file format including Word®, Excel®, Acrobat® PDF, etc.

Process Verification –

LabSoft LIMS Micro validates the sample set selection process to ensure proper documentation by the user.