HELIOS®

HELMED INTEGRATED OPTICAL SYSTEM

Fully Automated IFA Processor

LIS User Manual

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1 Overview

The LIS User Manual will guide you using the LIS function for the HELIOS instrument.

The LIS function is able to:

- Order requests at the LIS (1.)
- Receive requests from the LIS (2.)
- Send results back to the LIS (3.).

The following figure shows the different communication path related to the software modules.

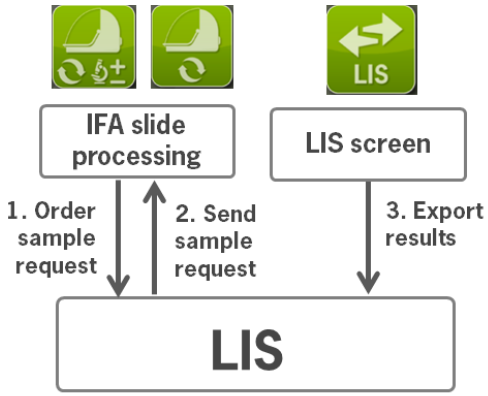


Figure 1: Communication path related to the software modules

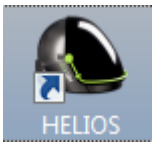
Order and receive requests is possible in the IFA (green and blue). To export the results the whole worklist has to be classified in the Result confirmation. After worklist classification the result for each sample ID can be sent to LIS via LIS screen.

Find in the next chapter the description of the LIS screen. In chapter 3 the whole workflow of “How to use the LIS function” is described.

2 LIS screen

The LIS screen can be opened on the selection screen of the HELIOS software. Therefore please follow the description below.

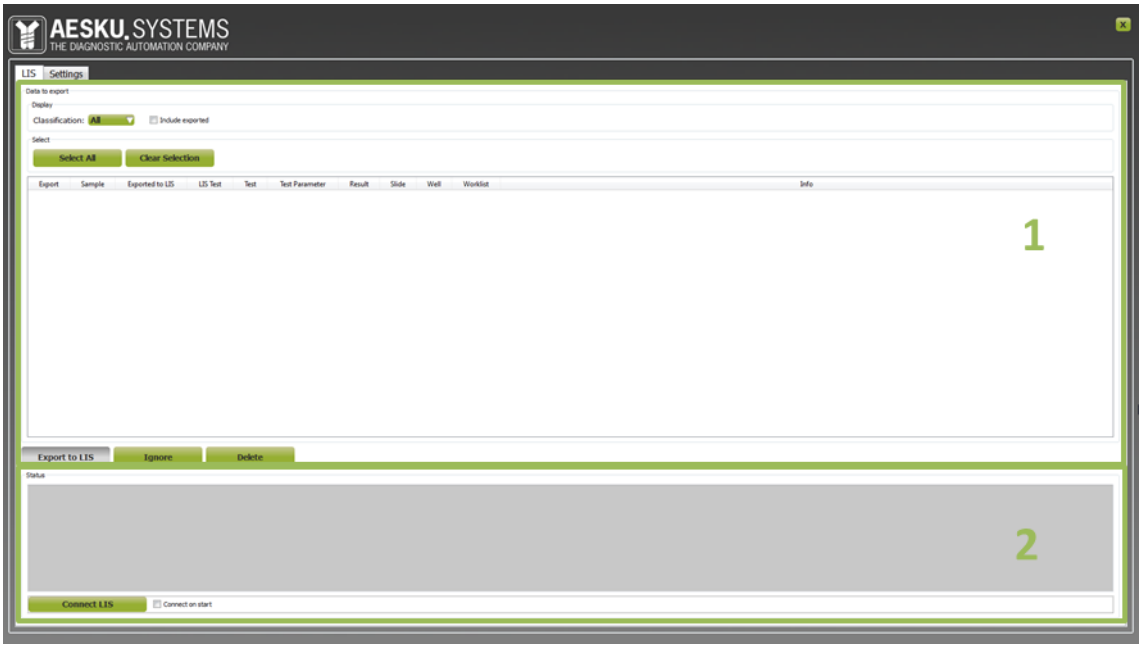
1. **Start HELIOS.**



2. **Log in and click on the LIS button.**

Note: The LIS screen is available for all user accounts (user, superuser and admin).

The LIS screen will be displayed.

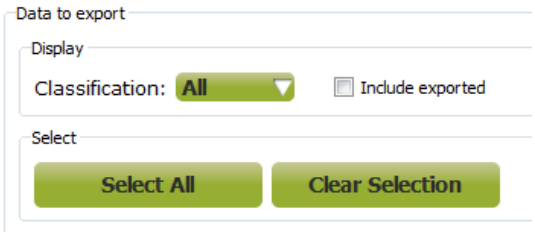


The LIS screen has different functions which will be explained in the next chapter. First, the first field “Data to export” is explained (chapter 2.1). Find in chapter 2.2 the instruction on the second field “Status”.

Note: The tab “Settings” is only used for the first installation. Changes will have influence on the LIS communication. Only trained LIS personnel should change settings if necessary.

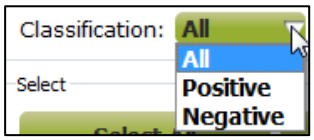
2.1 Data to export

In the field “Data to export” there are two different areas.

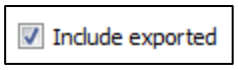


In the area “Display” you can change the display of the samples.

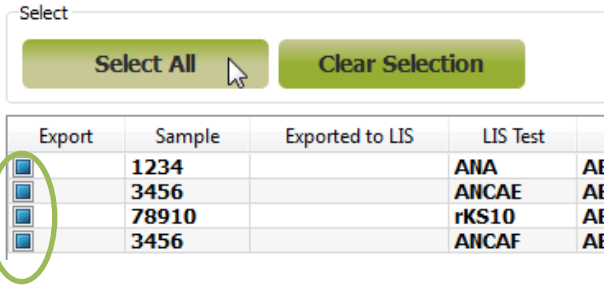
Select all samples, only negative samples or only positive samples by selecting “All, Negative or Positive” in the drop down menu. The drop down menu is shown in the accompanying figure.



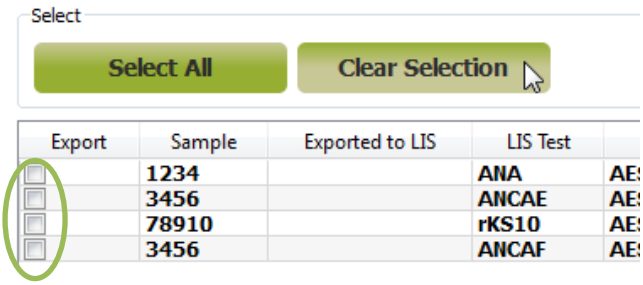
Set the check mark for “Include exported” (accompanying figure) to display all previous exported samples. The exported samples can be send again to the LIS, if necessary.



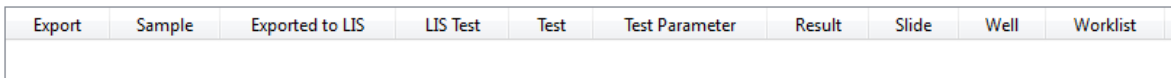
In the area „Select“ all samples can be selected by clicking „Select All“.



Click “Clear Selection” to undo the selection.

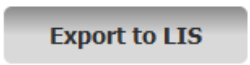


The table displays the samples including information about Test, Test Parameter, Result, Slide, Well and Worklist.



If samples are selected, the samples can be sent to LIS clicking “Export to LIS”.

Note: If the button “Export to LIS” is grey and not active, there is no LIS connection. Please contact your administrator.

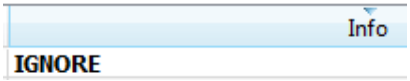


Ignore

If there are samples which should currently not send to the LIS, the button „Ignore“ can be used to tag these samples as “not sent to the LIS”.

Therefore, select the samples and click “Ignore”. The samples will be removed from the list.

Set the check mark for “Include exported” to display the ignored samples again. The ignored samples are marked as “IGNORE” in the “Info” field.



Note:

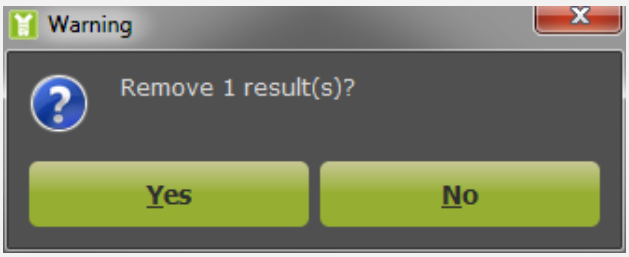
Even if the samples were been ignored they can be sent to LIS, if necessary.

Delete (Remove from list)

Samples entries can be deleted finally from the directory, if necessary. This will not delete the original samples, only in the directory the entry of this sample is deleted.

Select the sample which should be deleted and click “Delete”. Confirm the deletion with “Yes” if you really want to delete the sample.

Note:
Use the function “Delete” only if it is really needed. The deletion is irreversible.



2.2 Status

In the field “Status” there is a status box. If the scanning of the worklists is finished you can find different messages in this box.

Note:

The status messages appear only for new scanned worklists. If you close the LIS screen and open it once again the last messages will not be displayed again.

New run

If there is a new classified worklist there will be the message “New runs” with the information about the data path.

The status will be displayed in green.

Example:

Not confirmed run

If there is a new worklist where all or some of the wells were not be classified there will be the message “Not confirmed run” with the information about the data path.

The status will be displayed in yellow.

Example:

Missing LIS-test mapping for test

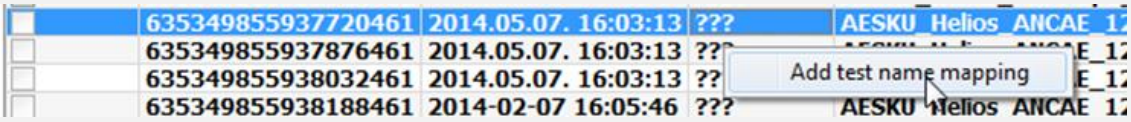
If there is a new worklist where a test without a LIS-test mapping is included there will be the message “Missing LIS-test mapping for test” with the information about the data path.

The status will be displayed in red.

Example:

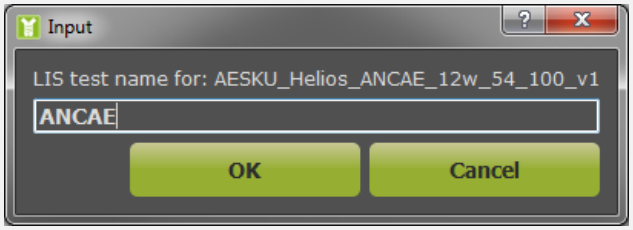
Note: If the LIS-test mapping is missing (test = ???) you can add a LIS test name temporary to send the samples to the LIS. Before you have to check your test name mappings with your LIS system!

a. Therefore click in the “test” field with the right mouse button.
b. Click “Add test name mapping”. A window “Input” will be opened.



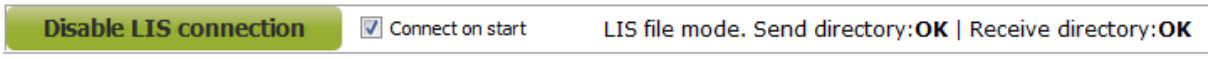
c. Add the LIS-test name for the selected test and click “OK”.

Example (your internal test mapping may differ!):



The status of the LIS connection is displayed at the bottom of the screen.

Click “Enable LIS connection” to a connect the instrument to the LIS.



If you want that the LIS connection will be enable on start, set the check mark on “Connect on start”.

3. **Check if the status of the LIS is “OK”. Find the button at the lower end of the screen.**

Note: If the LIS is not connected the following status will be shown.

Click on the button “Enable LIS connection” to connect to the LIS.

If you want that the LIS connection will be enable on start, set the check mark on “Connect on start”.

4. **Close the LIS window.**

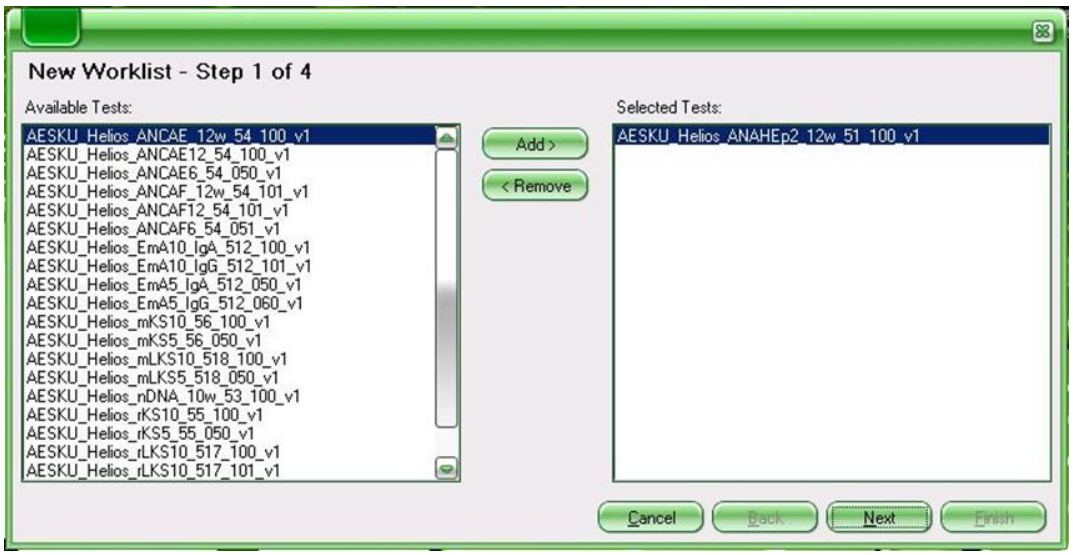
3 How to use the LIS function?

The following instruction will guide you using the HELIOS® LIS function. Please note in addition the instruction in the HELIOS® User Manual.

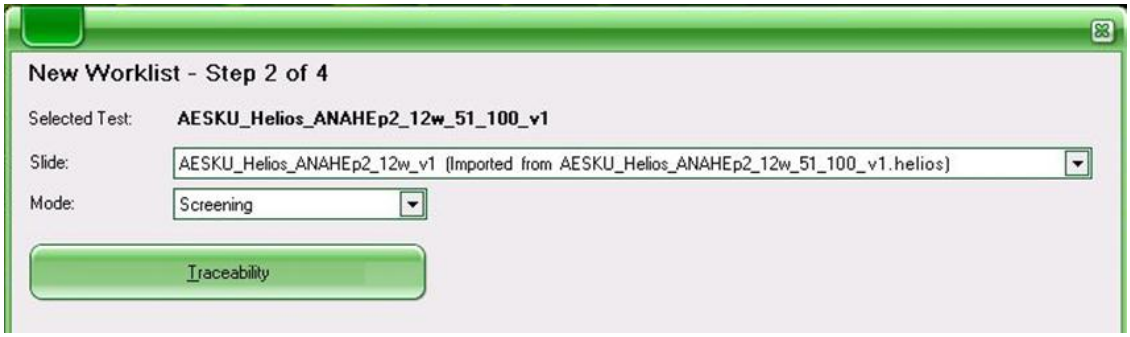
1. **Open the HELIOS IFA.**

2. **Start a new worklist.**

3. **Select the test you want to run.**



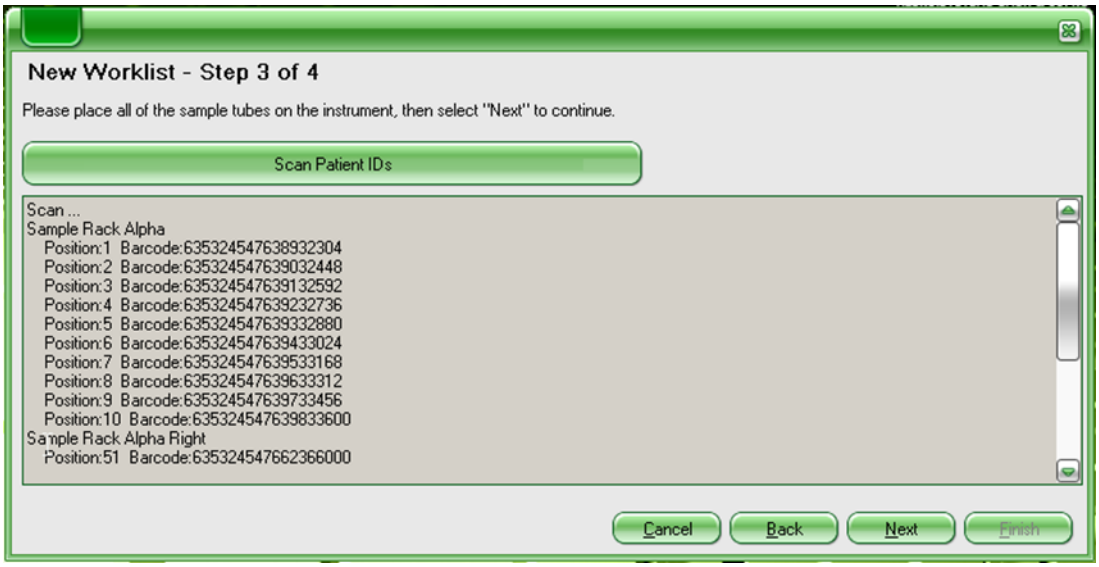
4. **Select the run mode (Screening or Titration).**



5. **Check the traceability data.**

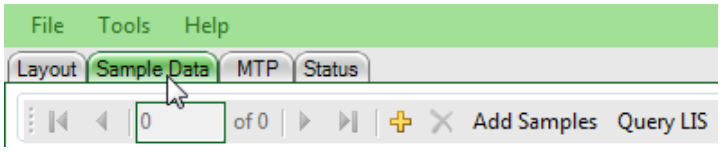
6. **Scan the barcodes (if you have barcode labelled samples).**

   Otherwise you have to type in the sample ID manually.



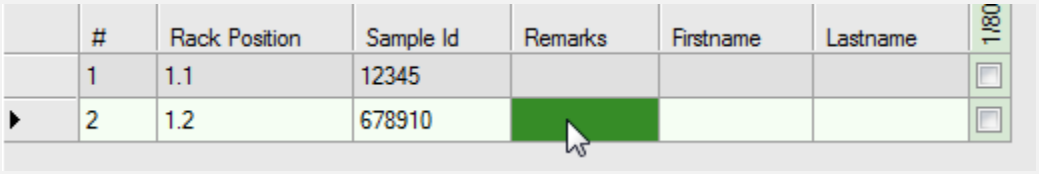
7. **Click “Finish”. The layout screen will be opened and you will see the layout for the run.**

8. **Click on “Sample Data”.**

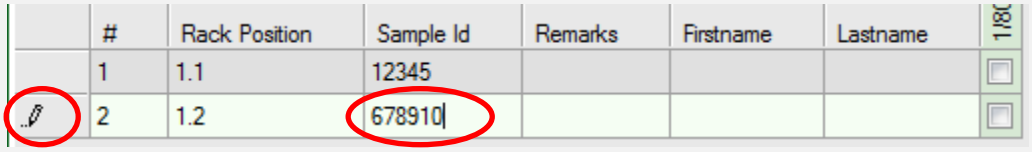


9. Make sure that all Sample IDs are entered in the list.

Note: If you enter the samples manually please make sure that the entry is finished before you go to the next step. Click in another field and ensure that there is a black arrow at the beginning of the last row (figure below).

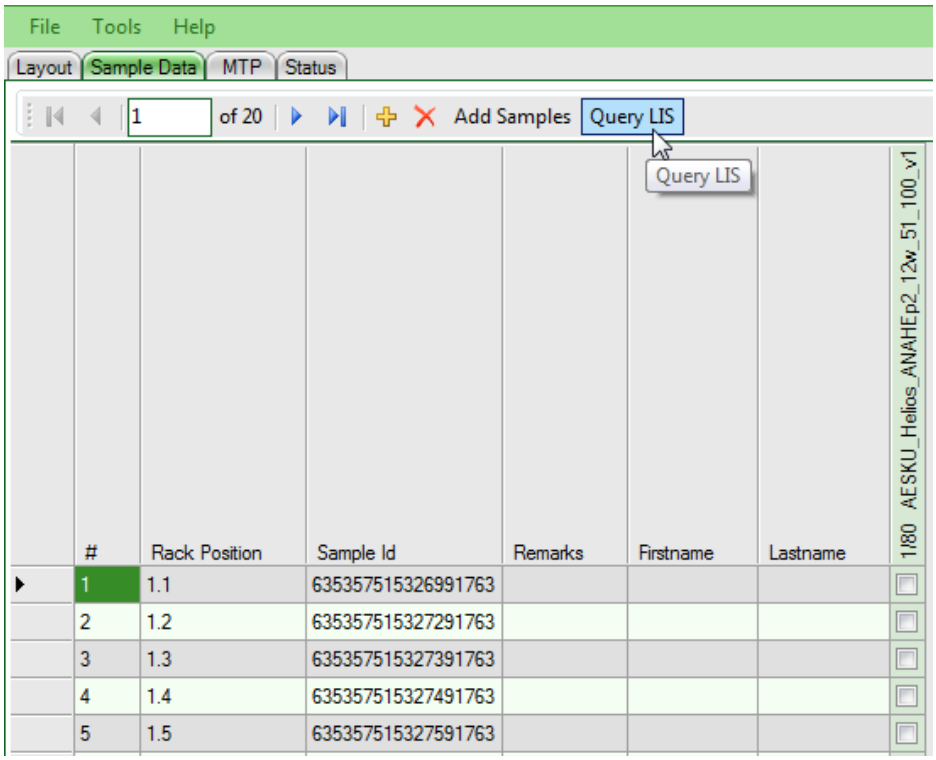


Example of open entry (wrong):

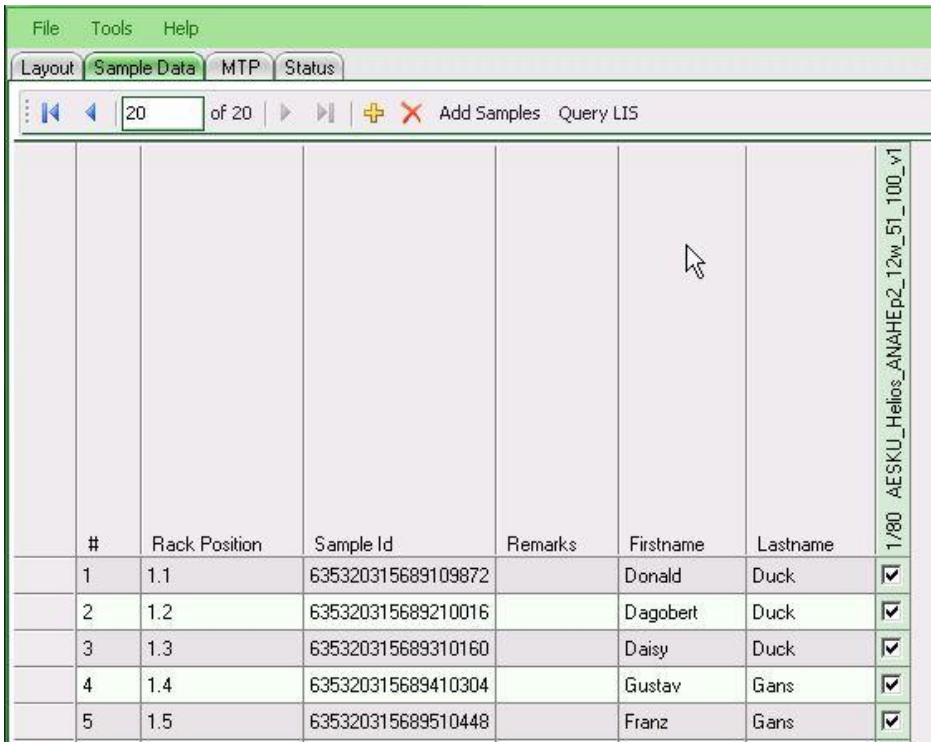


The last sample cannot be sent to the LIS because it is currently in use (..✎).

10. Click on "Query LIS".



The IFA software will now communicate with your LIS and looks if there are any tests for the proper sample ID. If there is data available the software will fill out the patients name and check the dilution box.



	#	Rack Position	Sample Id	Remarks	Firstname	Lastname	1/80 AESKU_Helios_ANAHEp2_12w_51_100_v1
	1	1.1	635320315689109872		Donald	Duck	☑
	2	1.2	635320315689210016		Dagobert	Duck	☑
	3	1.3	635320315689310160		Daisy	Duck	☑
	4	1.4	635320315689410304		Gustav	Gans	☑
	5	1.5	635320315689510448		Franz	Gans	☑

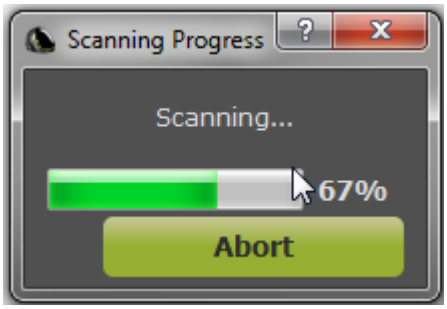
11. Load the instrument and start the process like it is described in the HELIOS® User Manual.

12. Classify the processed worklist in the Result Confirmation.

Note: The worklist can only be send if all wells are classified. The following message will appear.

13. Close the Result Confirmation and open the LIS screen.

14. **Wait until the scanning of new results is finished.**



The status of the scanned worklists will be listed in the status box. Find information about the status messages in chapter 2.2.

15. **Choose the samples which has to be send to the LIS. Find detailed information in chapter 2.1.**

16. **Click "Export to LIS".**

17. **Wait until all selected samples were exported.**

18. **Close the LIS screen.**

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