Configuration Settings

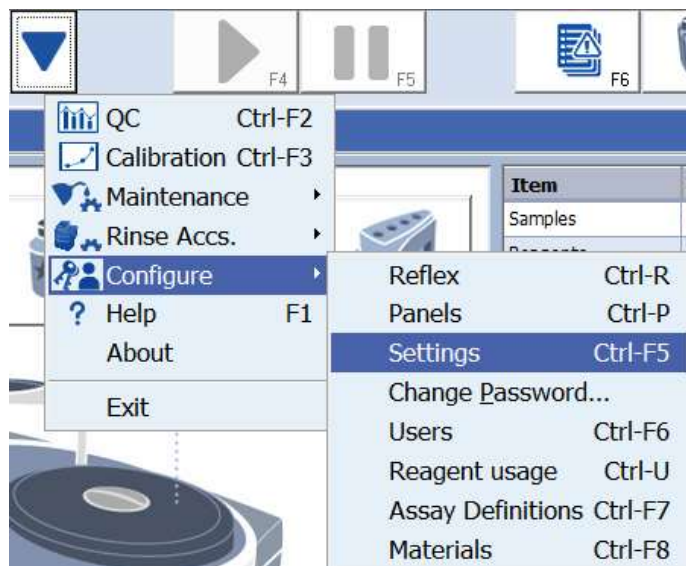**To access BIO-FLASH settings,** click and then select **Configure > Settings** from the pull-down menu.

Figure : 6 - 66, Pull-Down Menu

The Settings screen includes seven tabs. The screen opens on the last tab selected. The Lab ID tab is shown below.

Figure : 6 - 67, Configure > Settings Screen

Save and Close Buttons

These two buttons are utilized for every Tab as described :

- **To make changes,** select the appropriate tab (listed below), make the changes and then click the [floppy disk icon] button to save any changes and exit the **Settings screen**.
  Prior to saving any changes all field entries are validated according to a set of rules applicable to each instance and if errors are found an appropriate message appears in a pop up box showing the problem needing correction.
  If all fields are found to be correct the changes are saved and the screen dismissed.

- **To dismiss the screen before making changes or after making changes not to be saved,** click [exit icon]. Any unsaved changes will be lost.

[warning triangle icon] **NOTE**: Initially on opening the screen the [floppy disk icon] button is inactive (grayed out). Upon any changes being made in any tab it becomes active.

Lab ID

The Lab ID tab contains name/address and contact information for this facility.

LIS Setup

The LIS Setup tab contains the LIS (Laboratory Information System) name, enabling commands, host upload and download settings, IP address, connection type and ASTM Delimiter information.

Validate

The Validate tab lets you specify the conditions under which the software automatically approve results without requiring user intervention.

Barcode

The Barcode tab controls the settings for information contained in printed barcodes.

Lab Preferences

The Lab Preferences tab controls password options and automatic results printing or archiving options.

Lab Settings

The Lab Settings tab controls the application language, date, time and number format.

Bulks Settings

The Bulks Settings tab controls the uninstallation of the High Capacity Rinse Accessory, the enablement or otherwise of System Rinse Lot Traceability (if the Rinse Accessory is installed), the Counting of Fluid Waste and the enablement of Manual Barcode Entry for Sample Bulks. Please see the paragraph **Configure > Settings > Bulks Settings** for a description of the Uninstallation of the High Capacity Rinse Accessory.

Configure - Lab ID Tab

To access the Lab ID screen, click the **tab** at the bottom of the Settings screen.
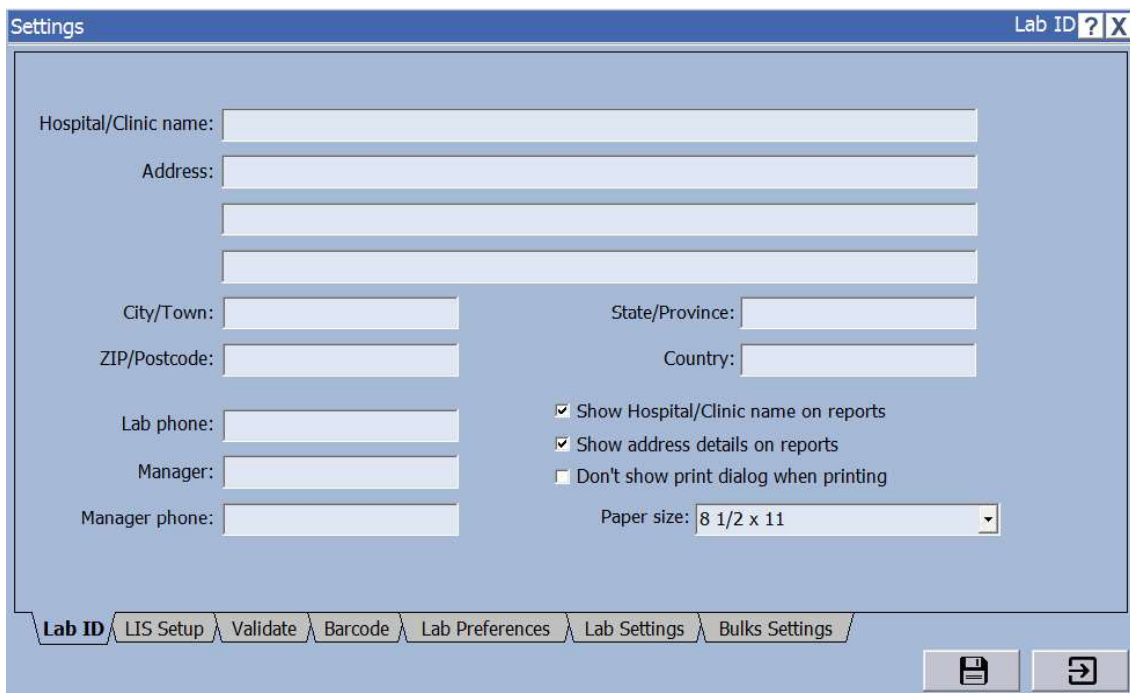The Lab ID tab contains the lab name, address and contact information.

Figure : 6 - 68, Configure > Settings: Lab ID

This lab name and address information appears on Results Reports.

- **To continue viewing/editing the settings,** click another tab.

  The ![save icon] button remains active as long as there are changes to be saved.

Print Preferences

- **To enable/disable printing the lab name** as a header on reports, **check** the Show Hospital/Clinic name on reports check box. This is checked on first installation.

- **To enable/disable printing the lab address** as part of the header on reports, **check** the Show address details on reports check box. This is checked on first installation.

- **To suppress or show a print dialog** when printing, **check** or **uncheck** the Don't show print dialog when printing check box. This is unchecked on first installation

- **To select print paper size,** use the Paper size pull-down menu.

> **NOTE:** If a user changes the print settings in a print dialog, the document will be printed with the user preferences.
>   If there is no default printer applied, on initiating a print, the application shows a System Error Message and stops the printing process.

Configure - LIS Setup Tab

The LIS Setup tab contains the LIS (Laboratory Information System) name, enabling commands, host upload and host download settings, IP address, connection type and ASTM Delimiter information.

Host refers to the LIS. During host download, the LIS sends sample specific test orders to the instrument. During host upload, test results are sent from the instrument to the LIS.

To access the LIS Setup screen, click the **tab** at the bottom of the Settings screen.

Figure : 6 - 69, Configure > Settings: LIS Setup

- **To continue viewing/editing the settings,** click another tab.

  The [save icon] button remains active as long as there are changes to be saved.

NOTE: Refer to the LIS software documentation or consult with the LIS administrator before changing these settings.

LIS Settings

Enter the name of the LIS system in the LIS name field. Use a maximum of 16 upper- or lower-case letters, numbers, and underscores.

- **To enable or disable LIS,** check or uncheck the Enable LIS check box.

  The **Status** of the LIS is displayed to the right of the check box. The status messages are:

  - **Not enabled:** LIS is not currently enabled.
    Does not change until after enabling the LIS box and clicking Save.

  - **Not connected:** LIS is enabled.
    The UDC connection is in progress or the UDC connection has been disabled.

  - **Ready:** LIS is enabled and UDC is connected but the remote LIS system has not accepted the connection.
    Transmission of information is held in queue until the LIS system is available.

  - **Ready LIS:** LIS is enabled, UDC is connected and the LIS is operational.
    The LIS is connected and accepting messages.

  - **Ready - LIS Connection Error:** LIS is enabled and UDC is connected but the LIS system rejected the connection.
    Transmission of information is held in queue until the LIS system is available.

  - **Open failed:** UDC connection failed (after 60s with Ready status). The UDC DLLs are either not installed or registered so the LIS connection is unusable.
    This may also happen if the connection has been lost because a message sent to the LIS has not been acknowledged before the time indicated in the LIS timeout delay control.

  - **Closing:** The program is in the process of disconnecting from the remote computer.
    This can take some time and can not be reversed by attempting to reconnect.
    The order to reconnect does not take effect until disconnect is complete.

- **To enable or disable use of instrument-generated Barcode IDs, check** or **uncheck** the Use Instrument generated Barcode IDs check box.
  If disabled (unchecked), the LIS generates the Barcode ID. Once specimens have already been created with a LIS generated Barcode ID (specimens created with the checkbox unchecked), attempting to change to an instrument generated Barcode ID (checking the checkbox) shows a warning dialog.
  It is not possible to download orders for existing samples unless using LIS generated barcodes.
  Clicking **Cancel** restores the checkbox to its previous value.

- **To have the instrument notify LIS of syntactic errors** (incorrect or incomplete command codes), check the Notify LIS of errors in received commands check box. When the box is unchecked, commands with syntactic errors are ignored. **Enable** notification when you use an RS232 connection; **disable** notification when you use an Ethernet connection.
  LIS is always notified of semantic errors (e.g., assay not defined, too many assays for sample, invalid sample type for this assay, etc.)

- **To select the acceptable delay** for the LIS to respond to an instrument message, use the LIS timeout delay pull-down menu offering 15, 30, 45, 60, 90, 120, 180, 240, and 300 seconds with an initial default of 60. The program uses this setting as the time to wait before concluding that the LIS will not acknowledge a request for orders (either a LIS Query or a Host Query). Note that this is not the time for the LIS to reply with a response to the query, but the time for the LIS to acknowledge that it has received the request.

- **To delete all results messages** from the instrument queue, click the **Empty Queue** button. This button is disabled if the Enable LIS box is not checked or when the queue is empty.

Host Downloading Settings

- **Automatic download** check box. When enabled, the instrument queries the LIS for work at the interval in minutes specified in the every __ minutes field.
  This is checked on first use.

- **Host query** check box. When enabled, the LIS is queried for all Barcode IDs found on the next barcode scan of the sample carousel.

Host Uploading Settings

Automatic uploadresults check box. When enabled, the instrument uploads individual sample results to the LIS as they are obtained or validated depending on the state of the Only validated radio buttons below, provided all replicates have been completed without errors and the assay is not a beta, developer or calibrator. Results already uploaded are not automatically uploaded again but the user is able to manually upload results as many times as needed.
Results containing errors or results which cannot be manually uploaded (see the paragraph on **Transmit to the LIS** for the reasons), are not uploaded automatically.

- If the All radio button is checked, results are sent automatically to the LIS when they are obtained, regardless of the approval state.

  If the Only Validated radio button is checked, results are sent automatically to the LIS whenever they are approved, either by the validation rules previously defined in the Configure - Validate screen **(Configure - Lab Settings Tab)** or manually using the Approve button from the ResultsScreen shown in **The Results Screen**.

Connection Type

- **RS232** radio button. If selected refer to RS232 Settings, shown below.

- **Ethernet** radio button. If selected refer to Ethernet Settings, shown below.
  These options are grayed out if the connection is not functional

Ethernet Settings

- **IP address of LIS:** Type in the LIS IP address. This field accepts any string up to 128 characters. Refer to following illustration.
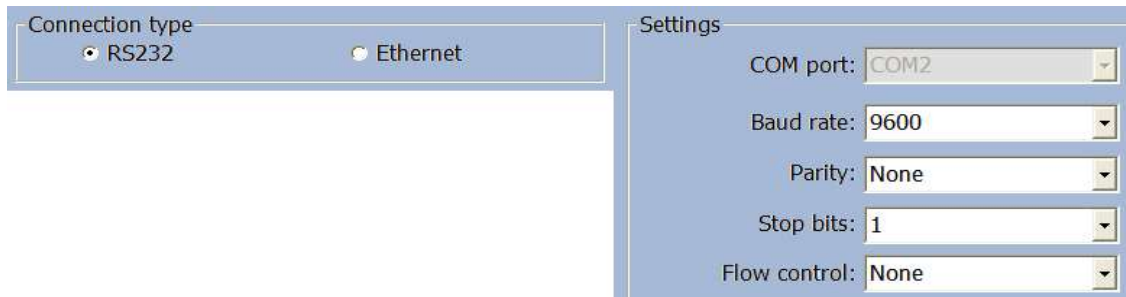
- **Port:** Type in the LIS port.

Figure : 6 - 70, Ethernet Settings

RS232 Settings

- **COM port:** Select the desired COM port from the pull-down menu. COM port 1 is reserved for the instrument. If there is only one open port available, it is selected and the pull-down is disabled. If no COM ports are available, RS232 is grayed out and Ethernet is forced in Connection type and disabled.

The following illustration shows RS232 setting options :
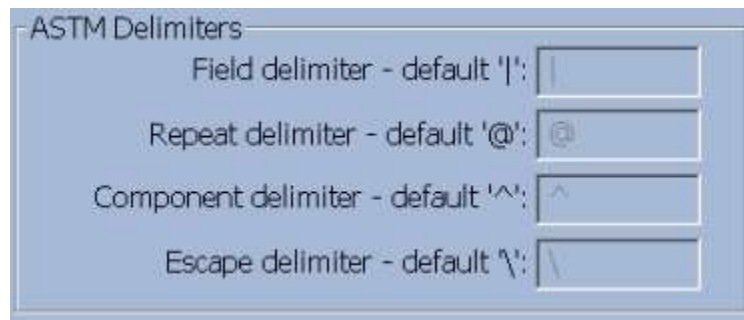

Figure : 6 - 71, RS232 Settings

- **Baud rate:** Select the desired baud rate from the pull-down menu. Available options are: 110, 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600 and 115200.
- **Parity:** Select the desired parity setting from the pull-down menu. Available options are: None, Even, Odd, Mark and Space.

- **Stop bits:** Select either 1 or 2 from the pull-down menu.

- **Flow control:** Select the desired setting from the pull-down menu. Available options are None, CTS/RTS, CTS/DTR, DSR/RTS, DSR/DTR and XON/XOFF.

ASTM Delimiters

NOTE: The following defaults are standard delimiters. Refer to the LIS software documentation or consult with the LIS administrator before changing these settings. An illustration of the delimiter section of the LIS Setting screen is shown below.

- **Field delimiter - default 'I'** Enter any single character from the ASCII set 33-47, 58-64, 91-96, 123-126 in the field to be used as the ASTM 1394 field delimiter.

- **Repeat delimiter - default '@'** Enter any single character from the ASCII set 33-47, 58-64, 91-96, 123-126 in the field to be used as the ASTM 1394 repeat delimiter.

- **Component delimiter - default '^'** Enter any single character from the ASCII set 33-47, 58-64, 91-96, 123-126 in the field to be used as the ASTM 1394 component delimiter.

- **Escape delimiter - default '\'** Enter any single character from the ASCII set 33-47, 58-64, 91-96, 123-126 in the field to be used as the ASTM 1394 escape delimiter.
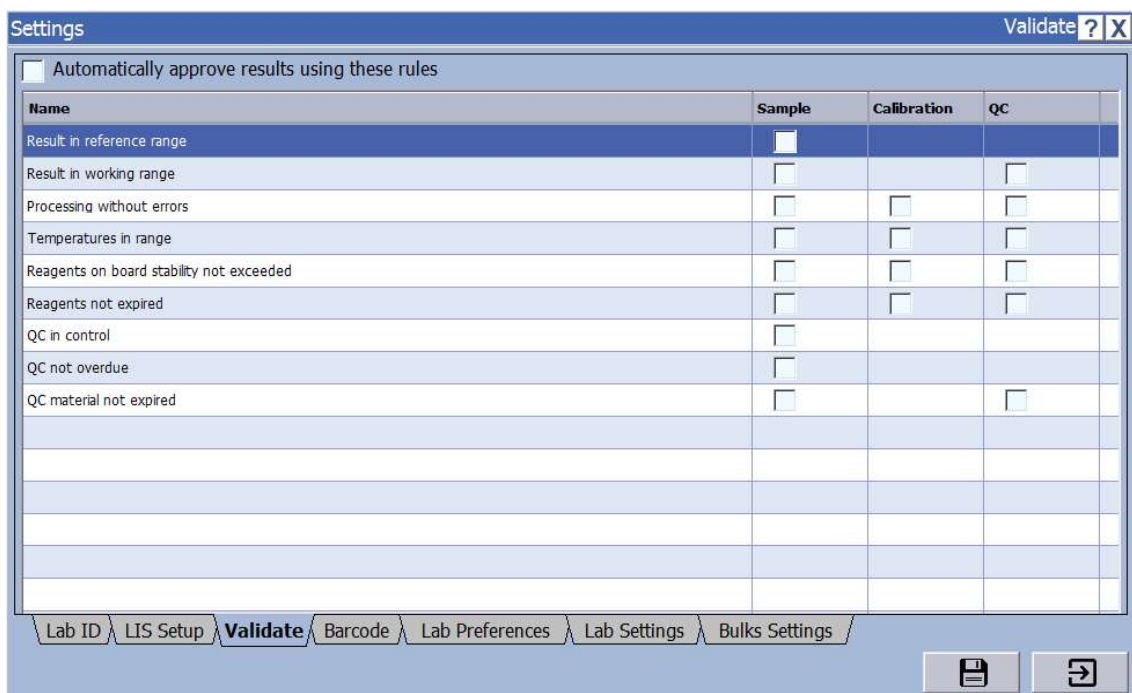
Figure : 6 - 72, ASTM Delimiter Settings

Configure - Validate Tab

To access the Validate screen, click the **tab** at the bottom of the Settings screen.
This tab lets the user specify the conditions under which results are automatically approved by the software without requiring user intervention.

Figure : 6 - 73, Configure > Settings: Validate

- **To automatically approve results** using any of the selected rules in this window, **check** the Automatically approve results using these rules check box.