ACCQ*Prep*®
Quick Start Guide

Overview

Two requirements must be met before these quick start instructions can be used to successfully operate the ACCQ*Prep* system:

- The operator must be familiar with the safety warnings at the beginning of the *ACCQPrep Operation Guide*.

- The system must be installed according to the installation instructions in the *ACCQPrep Installation Guide*.

> ☑ *Note*

For the most reliable operation, priming the system each morning is recommended.

Column Installation and Configuration

1. Install and connect the appropriate preparative HPLC column using the associated column mounting brackets onto the column rails on the right side of the ACCQ*Prep* system.

Figure 1: ACCQPrep column rails

2. If the column has not previously been used on the instrument, add the column to the column list. If the column is already on the list, skip ahead to the instructions for running a method.

   a. To add the column to the list, select Tools > Configuration. The Configuration window opens (Figure 2).

   b. Select the Prep HPLC tab, then press New.

   c. Enter a name to identify your column.

   d. Enter the parameters associated with your column.

   e. Press Save.

   f. If your would like to create methods to associate with this column, press Define Methods.

   g. After the column is saved, select it as the Default column. If your system has a Column Selector Valve, choose the correct position that the column is installed on. Repeat Step 2 for adding any additional columns.

   h. For more details, see the Operation chapter of the *ACCQPrep Operation Guide*.
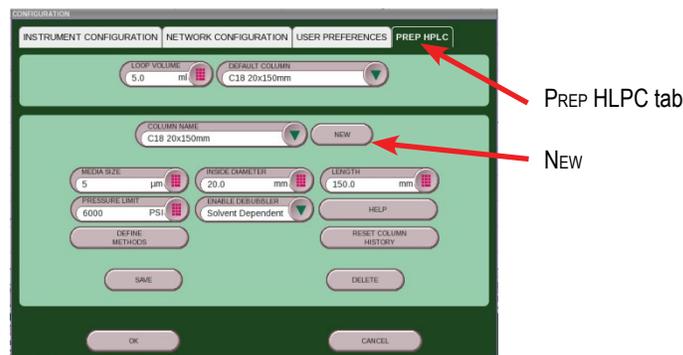
Figure 2: The Configuration window

> ☑ *Note*

The Default Column is automatically displayed in the Column window on the Run screen at start up (Figure 3).

> ☑ *Note*

When doing manual injection, never load more than 50% of the total loop volume (i.e., 2.5 mL in 5 mL loop) to prevent any sample loss. When using an AutoInjector or AutoSampler, follow any on-screen warnings regarding injection volume.

Running a Method

1. On the Run screen, the default column will be displayed in the Column field.

2. Press the Down arrow in the Column list to select a different column (Figure 3). If you have a Column Selector Valve, only the installed columns for each of the four positions are shown. Choose a method associated with the column being used.

3. Edit the method (gradient length, detection options, etc.) using the Method Editor tab or by modifying the gradient profile on the Main screen. See the Method Editor section of the *ACCQPrep Operation Guide* for details.

4. On the Main screen, press Start to begin a purification run.

Figure 3: The RUN screen

5. The MINIMUM RUN REQUIREMENTS window appears. For systems with an AutoInjector installed, skip to step 7. For systems with an AutoSampler installed, skip to step 8. Otherwise, continue to step 6.

6. Choose one of the SAMPLE LOADING settings. These include

   • LOAD NOW

   • LOAD AFTER EQUILIBRATION

   • LARGE SAMPLE-MANUAL/AUTOMATIC

   See the *ACCQPrep Operation Guide* if you are using the Large Sample Loading Pump Module.

Figure 4: MINIMUM RUN REQUIREMENTS window showing SAMPLE LOAD settings

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☑ *Note*

If LOAD NOW is selected, open the valve on the Luer-lock syringe adapter, then place your syringe on the Luer adapter, load the sample to be purified into the loop, remove the syringe and flush the Luer port with dissolution solvent, then turn the valve on the Luer-lock adapter to the closed position. Press the SAMPLE LOADED button. The system will immediately start the equilibration step and then automatically begin the separation without further user intervention.

If LOAD AFTER EQUILIBRATION is selected, the system performs the equilibration step and then pauses, allowing you to load the loop before proceeding. To use this option, press START EQUILIBRATION. DO NOT LOAD YOUR SAMPLE UNTIL THE SYSTEM INSTRUCTS YOU TO DO SO. Once equilibration is completed, follow the on-screen steps.

7. When the ACCQ*Prep* is equipped with an AI 5 AutoInjector, the SAMPLE OPTIONS window opens. There, you can set the total amount of sample to inject and the number of injections to use (Figure 5). Then, follow the on-screen directions for inserting the sample probe into the sample vessel. When OK is pressed, the equilibration begins, followed by automatic injection. After the series of injections are completed, you will be prompted to flush the sample probe.

   For a detailed explanation of operating the AutoInjector, refer to the Operation chapter of the of the *ACCQPrep Operation Guide*.

8. If your system is equipped with an AutoSampler, SAMPLE OPTIONS (Figure 5) are displayed when PLAY is pressed.

Figure 5: The SAMPLE OPTIONS window (If AutoSampler is active)

After a series of injections is completed, the AutoSampler automatically flushes the sample probe. Additionally, for systems with an AutoSampler, a separate tab labeled QUEUE appears at the bottom of the RUN screen. For a detailed explanation of using the QUEUE screen to schedule multiple samples, refer to the Operation chapter of the *ACCQPrep Operation Guide*.

Assistance Available

For detailed operating instructions, refer to the *ACCQPrep Operation Guide*. If you need assistance with these instructions, please contact Teledyne ISCO.

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