

To Start Up and Shut Down the System

To Start Up the System

This procedure assumes the system is under vacuum and the LC and LC/MSD are properly connected. It also assumes the liquid flow path is properly set up.

- 1 From the Method and Run Control view, click the **On** button in the system diagram.
- 2 Set up the LC conditions (pump, column heater, and detector).
- 3 Set up the LC/MSD spray chamber conditions as described in the **MSD Spray Chamber dialog box** topic in the online help.

Allow 15 minutes for the system to warm up.

To Put the System in Standby Mode

Put the system in standby mode overnight or whenever you won't be analyzing samples for an extended time. The standby state for the LC/MSD leaves the nebulizer and drying gas on at low flow.

- 1 Flush the system with pure mobile phase to ensure the flow path is clear of buffers. This avoids plugging the nebulizer. A plugged nebulizer can cause a high back pressure which can damage the LC flow cell.

It is good practice to flush the flow path (including the column) for 5-10 minutes with a mobile phase without buffers such as 50:50 water/acetonitrile.

- 2 Click the **Off** button in the system diagram. All modules will now be set to standby mode (indicated by the gray color in the system diagram).

Standby for the LC/MSD is 20 psi for the nebulizer, 3 L/min for drying gas, 300°C for drying gas temperature and, if present, 325°C for the APCI vaporizer. Also, the MS stream selection valve is set **LC to Waste**.