

Site Preparation – Sherlock® Mycobacteria Identification System

Purpose

To assure that the installation of the MIDI Sherlock® Mycobacteria Identification System (MYCO-LCS) along with the Agilent HPLC and ChemStation can be completed successfully, the installation site must be properly prepared. The appropriate utilities and supplies must be available to complete and checkout the installation.

Customer Responsibilities

Customers should ensure that all necessary operating supplies, consumables and usage dependent items such as vials, syringes and solvents required for the successful installation and checkout of the system are available. Installation sites should be prepared in accordance with the following specifications.

Important Information

If you have problems providing any of the following, please contact MIDI, Inc., for assistance. Users of the instrument should be present throughout the installation and familiarization otherwise important operational, maintenance and safety information may be missed.

Software Requirements

- Windows 7 Professional (SP1 or higher) is recommended (Windows XP/SP3 is supported).
- Agilent ChemStation B.04.03 or higher.
- Administrator logon and password for the installation computer.
- TEMP variable points to an existing directory (e.g. TEMP=C:\TEMP).

U.S. Windows 7 / XP Setup

You should begin with a default installation of Windows 7 / XP using U.S. English settings. Do not change security settings until your MIDI system is operational. After the system is working, you may tighten security settings and enable screen savers to the extent that they do not interfere with operations.

PC Hardware Requirements

- All PC hardware should be listed in the *Windows 7 / XP Professional Hardware Compatibility List* – see www.microsoft.com.
- Pentium processor operating at 1.0 GHz or higher (1.5 GHz or higher recommended) – for Sherlock DNA, 1.6 GHz minimum (3.0 GHz or higher recommended).
- Minimum of 1.0 GB of RAM (2 GB preferred).
- CD-ROM drive.
- Hard disk with at least 16 GB free capacity (20 GB recommended for local data storage).
- SVGA or better graphics adapter and monitor (min. resolution 1024 x 768).
- LAN interface with TCP/IP protocol installed.
Second LAN interface card, if Intranet / Internet access is required.
- The voltage setting of the computer system and the power cables must be correct.
- Dedicated printer.

HPLC Electrical Power Specifications

- All Agilent 1100/1200 modules have automatic line sensing, wide range power supplies and operate with line voltage in the range of 100 – 240 VAC, $\pm 10\%$.
- The modules used for the Mycobacteria Identification System consume a total of 485 Watts (795 VA).

HPLC Environment

- Temperature range 4 to 40° C (39 to 104° F) constant temperature.
- Humidity range < 95% non-condensing.

Main Solvent Requirements

- 2-Propanol.
- Methanol.

Reagents and Supplies

The following supplies are needed to complete and verify the Sherlock MYCO-LCS installation. See the Sherlock MYCO-LCS Operating Manual for additional supplies needed to analyze samples.

Mycobacteria Library

- MIDI Calibration Standard (MIDI Part No. 1500-A).
- MIDI Internal Standard (MIDI Part No. 1600-A).

Mycolic Acid Bacteria (MAB) Library

- MIDI Calibration Standard (MIDI Part No. 1800-A).
- MIDI Internal Standard (MIDI Part No. 1900-A).

Other

- Prepare MIDI reagents. See Chapter 2 in the Sherlock MYCO-LCS Operating Manual for more details.
- HPLC autosampler vials, 2ml, screw cap (Restek Part No. 21143).
- Screw caps (Restek Part No. 24498).
- MIDI custom evaporation unit (MIDI Part No. MIDI-VAP). Optional Labconco evaporator (recommended for high volume only).
- MIDI Certified Rapid Resolution HPLC Column - 4.6mm x 75mm, 3.5 μ m, with Certificate of Analysis (MIDI Part No. Column L).

Agilent HPLC Configuration

The Sherlock software is designed to work with a specific Agilent 1100/1200 HPLC configuration. If you did not order through MIDI, Inc., or an authorized distributor, you should confirm that your Agilent HPLC meets MIDI's requirements. The Agilent HPLC needs to be dedicated to the Sherlock application.