

Caliper Life Sciences Mobility-Shift Optimization Spreadsheet Version 3.3

P/N 125199 Rev 01

The Mobility-Shift Optimization Spreadsheet helps assay developers systematically determine the optimal operating conditions of voltage, pressure, and buffer sip time for a Mobility-Shift Assay on a Caliper LabChip System.

Note: Application Note 100, Automated Analysis of Proteins Using the LabChip 90 System, provides details on application development using the Caliper LabChip 90 instrument and how the Mobility-Shift Optimization Spreadsheet can be used. For a copy of Application Note 100, visit our website at <http://www.CaliperLS.com> or call 1-877-LabChip (522-2447).

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New Features/Bug Fixes

New in Version 3.3

1. Added support for Microsoft Office 2010.
2. Added support for Windows 7 (32-bit and 64-bit).
3. Removed references to obsolete chips FS266, TC372, and ProfilerPro. (Data files generated by these chips can still be analyzed.) Now includes only references to EZ Reader 4-sipper and 12-sipper chips.

New in Version 3.2

1. Added support for Experiment files. Added Experiment file type (.exp) to Save As dialog.
2. Added support for Microsoft Office 2007.
3. Added support for Microsoft Vista.

New in Version 3.1.4

1. Fix for a problem in the "Make a Job File" button for the On-Chip spreadsheet. No changes to the Off-Chip spreadsheet.

New in Version 3.1.3

1. Fix for the "path not found" error in the "Make a Job File" button.

New in Version 3.1.1

1. Fix for error in the ChipDataTable for the FS266 chip, which caused poor viscosity measurements.
2. Update for compatibility with LabChip HTS 3000 Version 5.0 data files.
3. New logo and colors.

Known Issues and Workarounds

1. Microsoft Excel's Security Level must be either Medium or Low to run this software. If the security level is set to high, Excel will not run the VB Macros needed by the Mobility-Shift Spreadsheet. To change the security level:
 - a. Start Microsoft Excel. On the menu bar, select **Tools > Macros > Security**.
 - b. Click the **Security Level** tab, click **Medium**, and then re-open the Mobility-Shift Spreadsheet.
2. If Microsoft Excel 2003 is upgraded to 2007 after Optimizer is installed, the Optimizer macros stop working. Reinstall Optimizer to fix the issue.
3. Microsoft Excel 97 is not fully compatible with this software. If you run this software with Microsoft Excel 97, you will receive error messages in the following scenarios:
 - a. In the Peak Finder Results worksheet, when you use "Manual Mode" and there are more than 9 peaks for each sipper, when you click the "Accept" button, no peaks will be copied to the Experimental Estimates worksheet. You will receive an error message when you open another RDA file later.
 - b. In the Off-Chip (or On-Chip) Assay Predictions worksheet, when you click on a radio button, you will receive an error message. Click "End" in the error message box. Then, the set of operation conditions you chose will be bold but in "black" color. Then, you can still make a job file.
4. In the Off-Chip (or On-Chip) Assay Predictions worksheet, after you print this worksheet and then switch to another worksheet, then switch back to this worksheet, the worksheet will refresh several times.
5. In the Peak Finder Results worksheet, after removing a peak from the peak table, the annotation of the deleted peak, a yellow triangle, on the corresponding chart will be moved to (0,0).

Compatibility

This version of the Mobility-Shift Optimization Spreadsheet is compatible with all of the following input file formats:

Version	Instrument	File Type
	LabChip EZ Reader	XML (.exp)
	LabChip EZ Reader	Text (.job)
	LabChip EZ Reader	Binary (.rda)
5.0	LabChip HTS 3000	Binary (.rda)
4.0	Caliper 250	Binary (.rda)
3.0	Caliper 250	Binary (.rda)
3.0	Caliper 220	Binary (.rda)

Required Configuration

- Microsoft® Windows XP, Vista, or Windows 7
- Microsoft® Excel 2003 or higher (Security Level: Medium or Low)
- Microsoft Internet Explorer v.5.5 (Service Pack 1) or above
- Minimum RAM: 128 MB
- Minimum Free Space: 3MB on C:\ Drive

Software Installation

Installing Caliper Mobility-Shift Optimization Spreadsheet

1. Log on to the computer with the user's username. If you log in as "Administrator", you will need to manually install an Excel Add-in file for each username. Excel Add-in files are user-name dependent. See below for instructions.
2. Close all programs.
3. Insert the Mobility-Shift Optimization Spreadsheet CD into the CD-ROM drive.
4. Follow the instructions in the Setup Wizard.
5. If the Setup Wizard does not run automatically, double-click Setup.exe on the CD.
6. If more than one user will use this tool, each additional user must install an Excel Add-in file manually after the installation. To install the Excel Add-in file:
 - a. Start Microsoft Excel. On the menu bar, select **Tools > Add-Ins**.
 - b. In the window that opens, search for "Caliper Mobility-Shift Optimization Spreadsheet 3" in the table, and select the check box for the Add-in.
 - c. If you cannot find it in the table, click the "Browse" button, navigate to the following folder and click on the file: "C:\Program Files\ Caliper\ MobilityShiftOptimizationSpreadsheet\ CaliperMobilityShiftModelTool3.XLA". Then, "Caliper Mobility-Shift Optimization Spreadsheet 3" will display in the table. Check the box in front of it. Click the "OK" button.
7. You must change the security level of Microsoft Excel from high to medium to run this software. To change the security level:
 - a. Start Microsoft Excel. On the menu bar, select **Tools > Macros > Security**.
 - b. Click the **Security Level** tab.
 - c. Click on **Medium**.
 - d. Restart the Mobility-Shift Optimization software.

Uninstalling Caliper Mobility-Shift Optimization Spreadsheet (for Windows XP, Vista, or Windows 7)

1. From the Start menu, select **Settings > Control Panel**.
2. Double click **Add/Remove Programs**.
3. Select **Caliper Mobility-Shift Optimization Spreadsheet** from the list of applications.
4. Click on the **Add/Remove** button to uninstall Caliper Mobility-Shift Optimization Spreadsheet.

Mobility-Shift Optimization Spreadsheet Support

The Caliper Life Sciences Mobility-Shift Optimization Spreadsheet support team can be contacted by phone (8:00 AM to 8:00 PM Eastern Standard Time), e-mail, or Internet.

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