

FL 6500/8500 Micro Cell Holder Installation Instructions

This instruction sheet describes the installation of this accessory which is used with the FL 6500/8500 Fluorescence Spectrometer.

NOTE: *Read these instructions before you install this accessory.*

Contacting PerkinElmer

Supplies, replacement parts, and accessories can be ordered directly from PerkinElmer, using the part numbers.

See our website:

<http://perkinelmer.com>

PerkinElmer's catalog service offers a full selection of high-quality supplies.

To place an order for supplies and many replacement parts, request a free catalog, or ask for information:

If you are located within the U.S., call toll free 1-800-762-4000, 8 a.m. to 8 p.m. EST. Your order will be shipped promptly, usually within 24 hours.

If you are located outside of the U.S., call your local PerkinElmer sales or service office.

Features

- Easy to installation
- Suitable size for micro cells
- Adjustable cell holder position



Figure 1 FL 6500/8500 Micro Cell Holder [P/N:N4201015]



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Shelton, CT 06484-4794, U.S.A

Produced in the USA.

Dimensions and Specifications

Physical Characteristic		Specification
Outline	Height (mm)	87 ~ 97 (Adjustable)
	Width (mm)	130
	Depth (mm)	267
Weight (Kg)		0.8

Configuration of the Micro Cell Holder

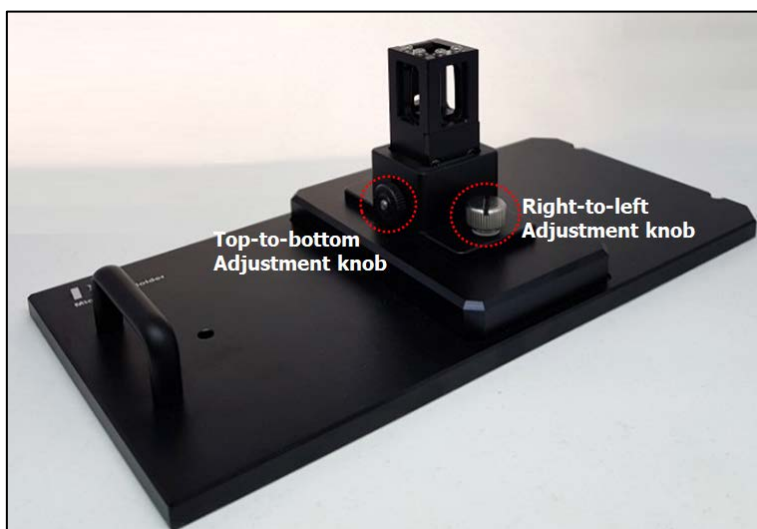


Figure 2 Micro Cell Holder Configuration

Installation

1. Prepare the FL 6500/8500 Fluorescence Spectrometer to install this accessory.
2. Connect the power cord and the communication cable.
3. Loosen the accessory fixing bolt to take apart the existing cell holder.

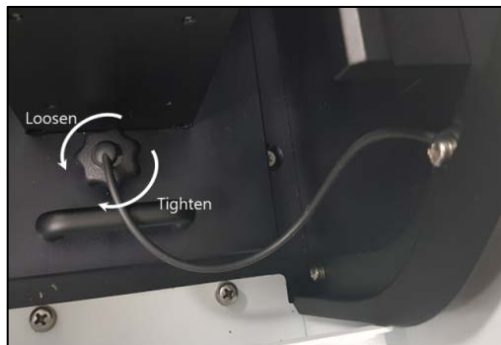


Figure 3 Loosening the Accessory Fixing Bolt

4. Pull out the cell holder by hand.

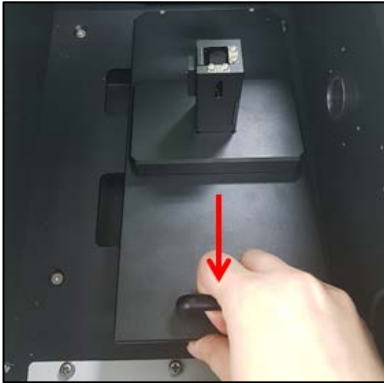


Figure 4 Pulling Out the Cell Holder

5. After checking the pogo pin position of the sample compartment, attach the Micro Cell Holder to the pogo pin.



Figure 5 Install the Accessory

6. Tighten the accessory fixing bolt.

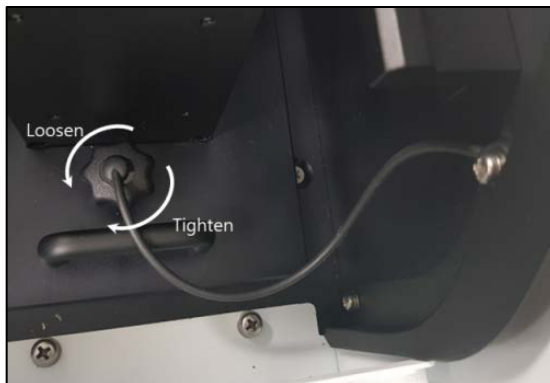


Figure 6 Tightening the Accessory Fixing Bolt

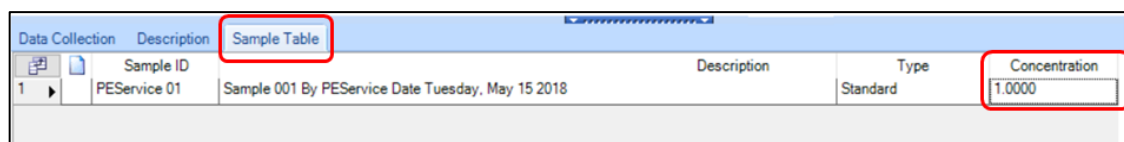
7. Put an empty micro cell into the Micro Cell Holder.
8. Beam Align is performed according to the following **Beam Align** Chapter.

Beam Align

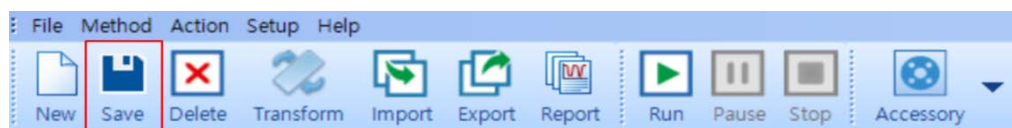
1. Prepare the white paper (Ex, A4 paper) and micro cell.
2. Open the lid and put an empty micro cell into the Micro Cell Holder.
3. Execute the **Spectrum FL** Software.
4. Click **Kinetics** mode.



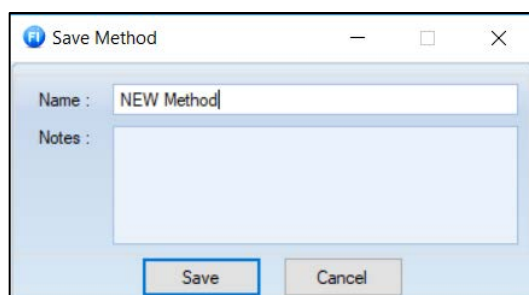
5. Set the parameters as follows.
Excitation Slit : 1 nm
Excitation Wavelength : 0 (Zero Order)
Emission Wavelength : No problem at all
Duration : 180 sec
6. After setting the parameters, click Sample Table and write the any value in the concentration area.



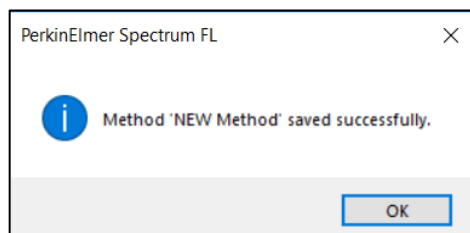
7. Click **Save** button to save the method.



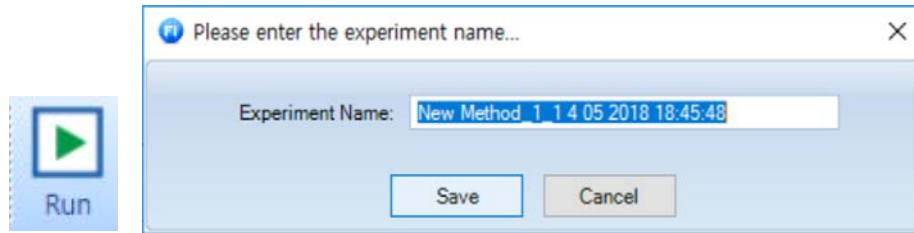
8. The Save Method window will be displayed. Click **Save**.



9. Click **OK**.



10. Click **Run**. Enter the Experiment Name and click **Save**.



11. When the measurement starts, the light (Zero order light) pass through the micro cell.
 12. Adjust the height and the position of the Micro Cell holder.
 13. For the height alignment of the Micro Cell Holder, loose hand screw on the side of the Micro Cell Holder.



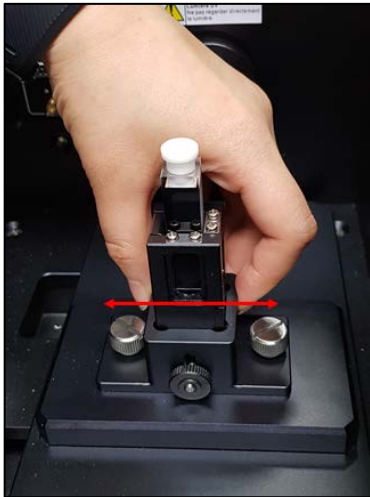
14. Adjust the height by moving the Micro Cell Holder up and down slowly so that the large portion of light passes through the window of the micro cell. After the height adjustment is completed, tighten the hand screw.



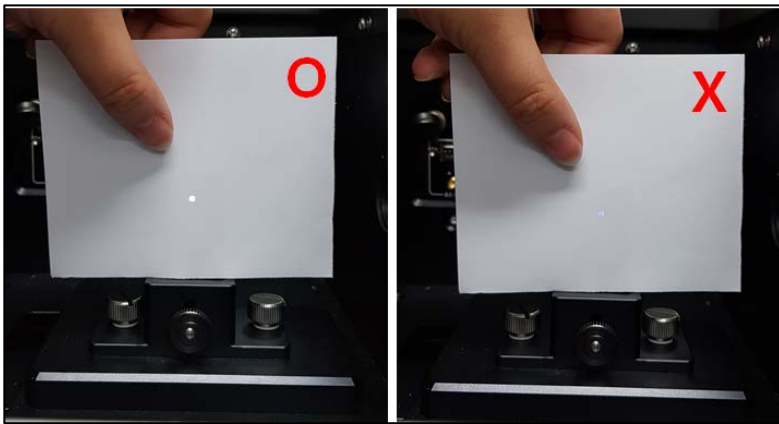
15. For the position adjustment of the Micro Cell Holder, loose 2 hand bolts on the bottom plate of the Micro Cell Holder.



16. Adjust the position by moving the Micro Cell Holder right and left slowly so that the large portion of light passes through the window of the micro cell. After the position adjustment is completed, tighten the hand bolts.



NOTE: *Align Example*



17. After the adjustment of the Micro Cell Holder is finished, click **Stop**.

Measurement

1. Double click on the **Spectrum FL** software and select the measurement mode.
2. Check the recognition of Accessory.



3. Set up the measurement parameters.

NOTE: For more detail of method, refer to *Spectrum FL Software Users Guide*.

4. Click **Save** to save the method after setting up the parameters.
5. Put the sample into the sample holder.

NOTE: Please refer to the *Beam Align* chapter for beam align.

6. Close the lid and select the **Run** icon.
7. Input the sample name and select **OK**.
8. Confirm the spectrum and results. Save or print the data.

