FL 6500/8500 Solid Sample 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

- Use for measuring various samples of powder, film, glass, and plate, etc.
- Easy to installation and User-convenient sampling
- Excellent durability

Figure 1 FL 6500/8500 Solid Sample Holder [P/N:N4201013]

**PerkinElmer, 710 Bridgeport Avenue,
Shelton, CT 06484-4794, U.S.A**

Produced in the USA.

Dimensions and Specifications

Physical Characteristic	Specification
Dimensions (mm)	130 x 91 x 267 (WDH)
Weight (Kg)	0.94
Sample Size (mm)	Max. Length : 250
	Max. Thickness : 17

Configuration of the Solid Sample Holder

Figure 2 Solid Sample Holder Configuration

Figure 3 FL Precision Cell for Powder Sample [P/N: N4201032]

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.

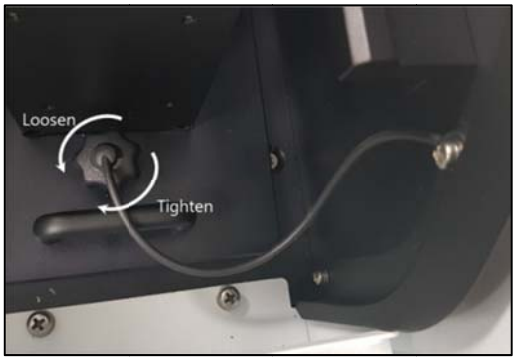


Figure 4 Loosening the Accessory Fixing Bolt

4. Pull out the cell holder by hand.

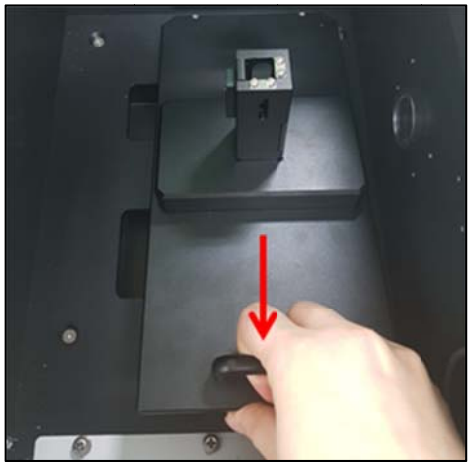


Figure 5 Pulling out the Cell Holder

5. After checking the pogo pin position of the sample compartment, attach the Solid Sample Holder to the pogo pin.

Figure 6 Install the Accessory

6. Tighten the accessory fixing bolt.

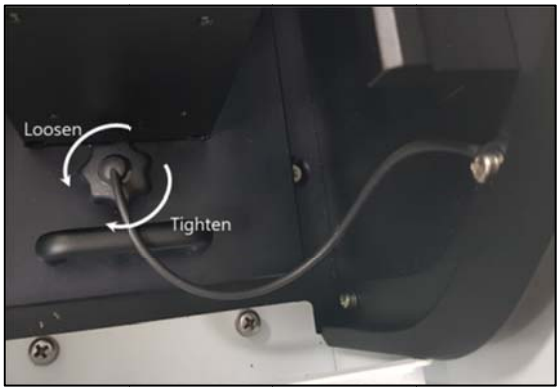


Figure 7 Tightening the Accessory Fixing Bolt

7. Unfasten the knob screw.

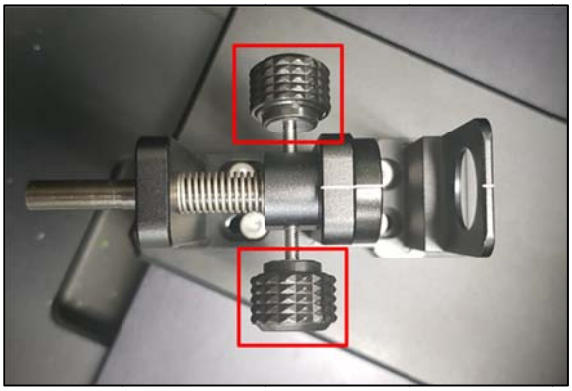


Figure 8 Unfasten the Knob Screw

8. Mount solid sample on the Solid Sample Holder and adjust the length. After fasten the knob screw. If sample is powder, please refer to Chapter **Precision Cell Installation Procedure**.

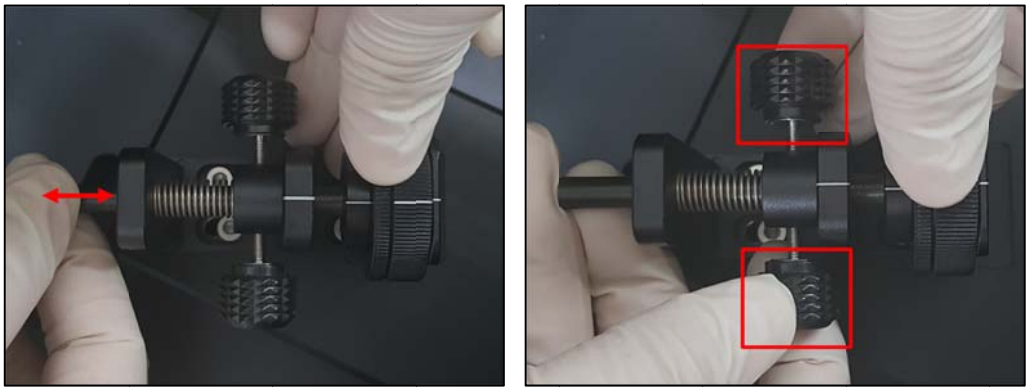


Figure 9 Mount Solid Sample

9. To fix the align position, arrange the white line straightly which is in the Solid Sample Holder.

Figure 10 Fix the Align Position

Beam Align

1. Mount the sample on the Solid Sample Holder.

2. Execute the **Spectrum FL** Software.
3. Click **Kinetics** mode.

4. Set the parameters as follows.

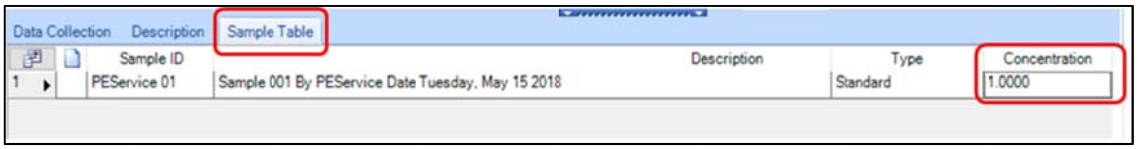
   Excitation Slit : 1 nm

   Excitation Wavelength : 0 (Zero Order)

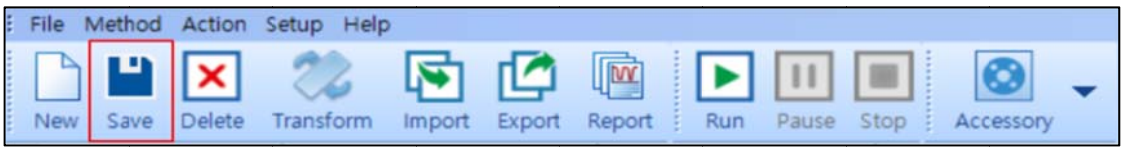
   Emission Wavelength : No problem at all

   Duration : 180 sec

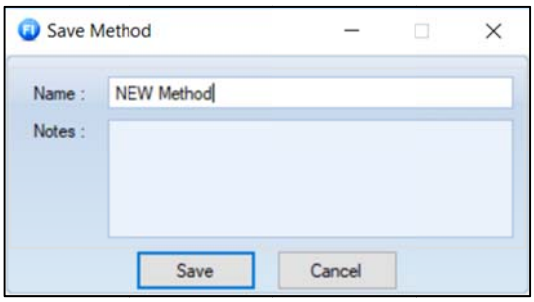
5. After setting the parameters, click **Sample Table** and write the any value in the concentration area.



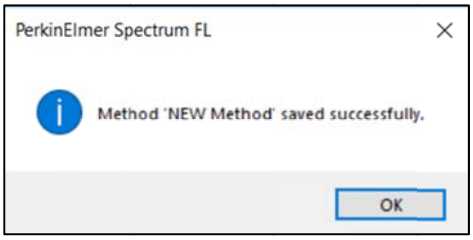
6. Click **Save** button to save the method.



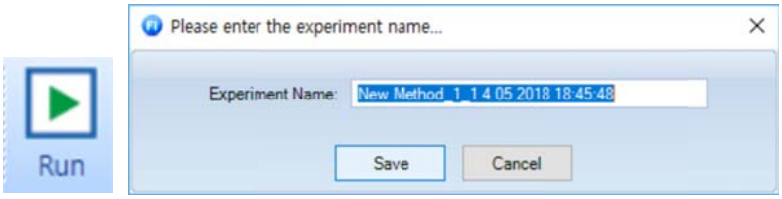
7. The Save Method window will be displayed. Click **Save**.



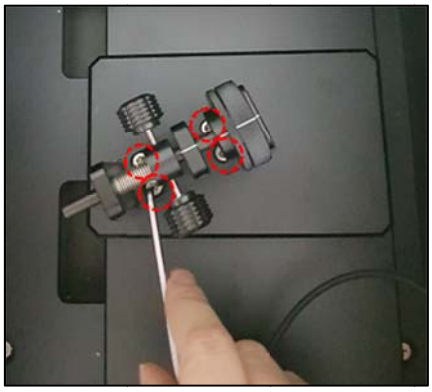
8. Click **OK**.



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



10. Open the lid. For the position adjustment of the Solid Sample Holder, loosed screws on the bottom plate using a M3 wrench.



11. While the light (zero order light) focus on the Solid Sample Cell. Adjust the position by moving the Solid Sample Cell Holder back and forth slowly so that the lights focus on the center of front window in Solid Sample Cell. After the position adjustment is completed, tighten the screws on the bottom plate of the Solid Sample Cell Holder.

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

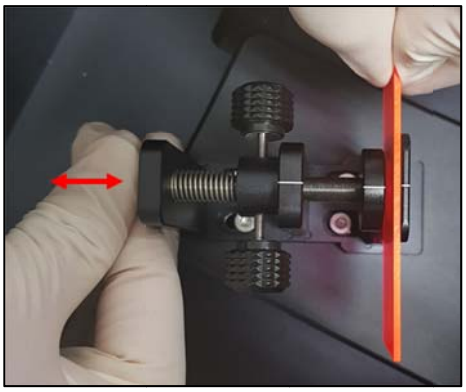
Measurement

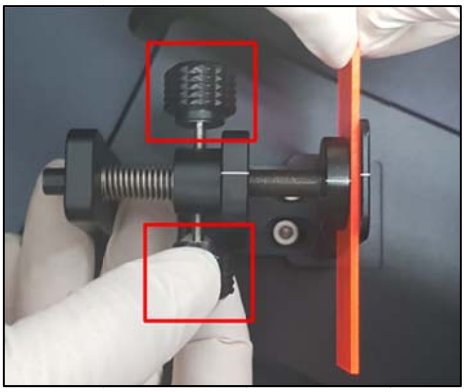
1. Double click on the **Spectrum FL** software and select the measurement mode.
2. Check the recognition of Accessory.

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.





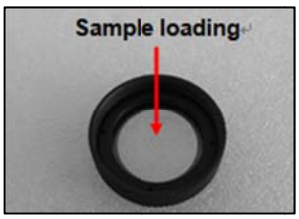
NOTE: *Please refer to the steps #7-#10 of the **Installation** chapter for sample loading.*

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.

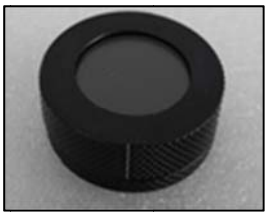
Precision Cell Installation Procedure

1. For powder sample, use the Precision Cell provided with the Solid Sample Holder.

2. Load the powder sample on the base of lower cover.



3. Place the screw top cover on the lower cover and tighten the precision cell by turning the screw cap clockwise.



Troubleshooting

When the sample does not fit in the Solid Sample Holder

1. Check the sample size and reduce the sample size if possible. The Variable Angle Solid Sample Holder is designed for the solid sample with maximum thickness of 17 mm and maximum diameter of 250 mm.