

Imaging Nucleic Acids on the LI-COR Odyssey Fc Imager

Quick Start Guide

1. Reserve the instrument with the online calendar at www.pugetsound.edu/sciencecorefacility
2. Turn on the computer
3. Turn on the monitor for the computer
4. Turn on the Odyssey Fc Imager
5. Open the Image Studio Software from the Desktop
6. Set up a new Work Area, or select your work area to open.
7. Open the Imaging Drawer by pressing the large Eject (open/close) button above the drawer.
8. Place your sample in the appropriate Imaging Tray, sample side up with the wells facing towards the rear of the instrument. Make sure the tray rests flat on the imaging drawer before pressing the open/close button to close the drawer.
9. In the Acquire ribbon:
 - a. Set your analysis type to DNA Gel
 - b. Enable the check box beside the 600 nm channel and deselect the other channels
 - c. Select the Integration/Acquisition Time by dragging the slider in the 600 box. Typical acquisition times for agarose gels are from 0.5 to 2 minutes.
 - d. Click Acquire Image
10. Choose the best display
11. Adjust the Display then click Done
12. In the DNA Gel Analysis ribbon:
 - a. Redraw the boundary
 - b. Choose a molecular weight marker
 - c. Find bands
 - d. Select a method for background subtraction. The recommended background method for DNA Gels is Lane.
13. Obtain the band size and other quantification results by clicking on the DNA Gel Bands tab at the lower left of the screen.
14. Export your Image:
 - a. To work with Image Studio on another Computer (Copy Image)
 - b. To use for illustration or publication purposes (Single Image View)
15. Export your data tables:
 - a. Export file to save directly in a folder as an Excel Spreadsheet
 - b. Launch an Excel Spreadsheet immediately after selecting a destination folder
16. End your session:
 - a. Remove and clean the imaging tray and put it back in the appropriate drawer.
 - b. Close Image Studio software and save your progress in your Work Area.
 - c. Press the **Power On/Off Switch** momentarily to turn off the Imager.
 - d. Turn off the computer.
 - e. Turn off the monitor.