

Scion image quantification of DNA or protein

1. Open the image in Photoshop.
2. Go to “Image” and rotate canvas-arbitrarily to make sure the bands are horizontally leveled.
3. Go to “Image” and crop the image to remove unnecessary part and reduce the file size. Save the image.
4. Go to “image”, then “adjustment” and “invert” to invert the image with bands showing in black and background in white. Save the reversed image as a tif file with a different name, such as rev.tif. Make sure to save it as a different file without override the original image. If it is protein gel, you may only need to save it as a different file without invert it as the bands are usually in black.
5. Move this processed image to the desktop (Scion image software will not work for images saved on portable drives). Now the image is ready for analysis.
6. Open Scion Image software.
7. Go to “Special” and then “load macros” (Macros are in C drive/program file/scion corporation/scion image). Load “Gelplot2”.
8. In Scion image, go to “File” to open the processed image on the desktop.
9. Use the bracket tool to select the area to enclose the bands as tightly as possible, but not touching the bands.
10. Go to “Special” to “Mark first lane” and then “Plot lanes”.
11. Go to “Tools” and choose “Line option” to connect the bottom of the peaks of each line;
12. Use the “Magic wand” to click within each of the peaks sequentially.
13. Go to “Edit” to “Copy measurement”.
14. Paste the data in an Excel spreadsheet.
15. Save the spreadsheet.