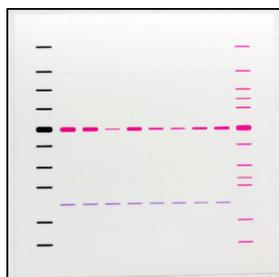


iBright™ Imaging Systems Sample Blot

Pub. No. MAN0018757 Rev. A.0



For demonstration of:

- Chemiluminescent acquisition
- Fluorescent acquisition
- Molecular weight determination
- Normalization

Image acquisition

Chemiluminescent Blot Mode

1. Place sample blot in the center of the imaging tray.
2. Select **Smart Exposure** to get an estimated acquisition time and a preview of how the signal will look at the recommended time.
3. If needed, adjust the exposure time. Select **Capture** to acquire the image.

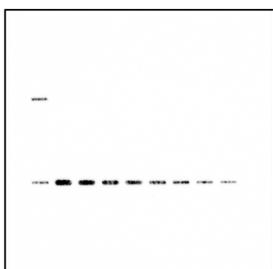


Fig. 1 Chemiluminescent Image

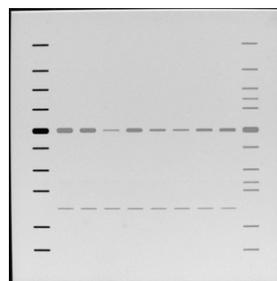


Fig. 2 Membrane

Fluorescent Blot Mode

1. Place the sample blot in the center of the imaging tray.
2. Assign a dye for each channel you want to capture. For the sample blot, select any or all of the following dyes:
 - Alexa Fluor™ 488 (Ex. 455-485 nm; Em. 515-564 nm, green bands)
 - Alexa Fluor™ 555 (Ex. 515-545 nm; Em. 568-617 nm, purple and pink bands)
 - Alexa Fluor™ 680 (Ex. 610-660 nm; Em. 675-720 nm, pink bands)
3. Select **Smart Exposure** to get an estimated acquisition time and a preview of how the signal will look at the recommended time.
4. If needed, adjust the exposure time. Select **Capture** to acquire the image.

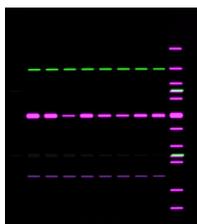


Fig. 3 Composite

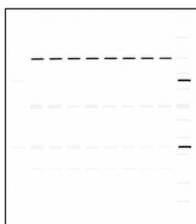


Fig. 4 Alexa Fluor™ 488

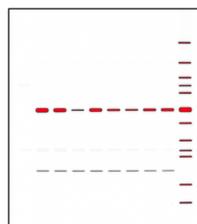


Fig. 5 Alexa Fluor™ 555

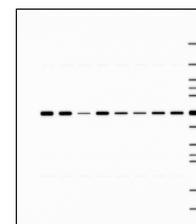


Fig. 6 Alexa Fluor™ 680

Analysis

After capturing an image of the Sample Blot:

1. Select the **Analyze** icon under the image viewport. The software will automatically identify analysis frame(s), lanes, and bands.
2. Under **More Options**, select the **Add Marker** button.
 - a. Select the lane that contains the molecular weight ladder desired for calibration by touching **+** above the desired lane. Lane 1 or Lane 12.
 - b. Use the menu on the right side of the screen to indicate the appropriate molecular weight ladder. Lanes 1 and 12 both contain the iBright™ Prestained Protein Ladder. In Lane 1, only 10 of 12 bands are visible; you need to delete the 80 kDa and 30 kDa bands from the marker list in order to get an accurate MW calculation. In Lane 12, all bands are identified in the Alexa Fluor™ 680 channel.

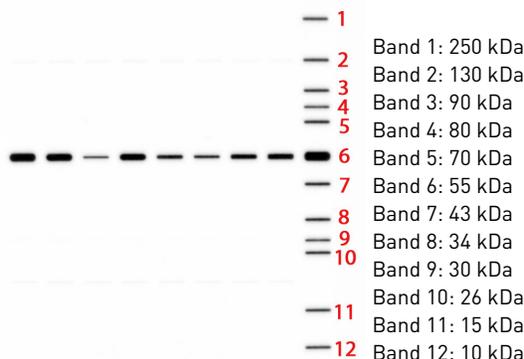


Fig. 7 Alexa Fluor™ 680

3. Normalization can be performed with iBright™ Analysis Software. Use Alexa Fluor™ 488 channel as the normalization lane and Alexa Fluor™ 680 as the experimental protein target.

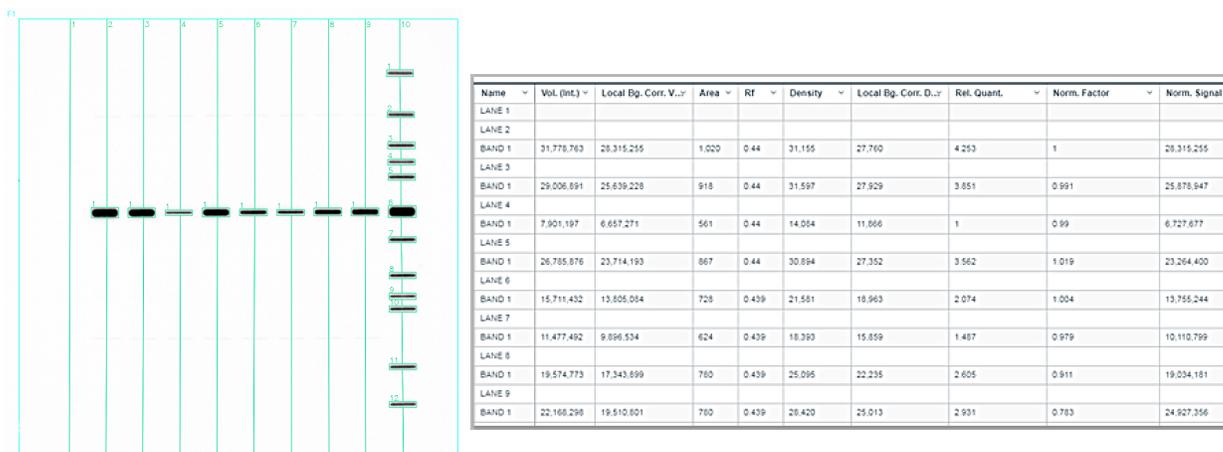


Fig. 8 Alexa Fluor™ 680

Limited product warranty

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