

NovaGlo conversion screen

Introduction

Syngene offers the NovaGlo conversion screen for imaging of transmission samples such as silver stained gels, coomassie brilliant blue (and other blue stains) gels and auto radiography film.

The NovaGlo screen is placed on top of the UV transilluminator, thus converting UV light to yellow transmission light.

A variety of sample gels have been imaged with the NovaGlo conversion screen to demonstrate its comparable performance to a conventional white light generating device.

Materials and Methods

Materials

Gels

Coomassie brilliant blue, Zyma blue, silver stained and autoradiography gel.

Image capture

All images were visualized using either a NovaGlo Screen and white light and a G:BOX iChemi XT image capture system (Syngene, UK).

Method

Each gel was imaged using GeneSnap image capture software (Syngene, UK) and for varied exposure times. When using the NovaGlo converter screen this was placed on top of a transilluminator.

Results

Figure 1 shows the comparison between coomassie brilliant blue and Zyma blue stained gels imaged using either a NovaGlo conversion screen or white light transmission.

Silver stained and autoradiographs gel images were visualized using either the NovaGlo converter screen or white light transmission to compare the quality of the image for both methods (**Figure 2**).

Conclusion

From the images you can clearly see that the NovaGlo converter screen produces comparable (**Figures 1c and d, 2c and d**) if not better results (**Figures 1a and b, 2a and b**) when compared to a conventional white light generating device.

Syngene reserves the right to amend or change specifications without prior notice. This Application Note supersedes all earlier versions.

All trademarks acknowledged.

May 2010

UK tel: +44 (0)1223 727123
Email: sales@syngene.com

USA tel: 800 686 4407/301 662 2863
Email: ussales@syngene.com

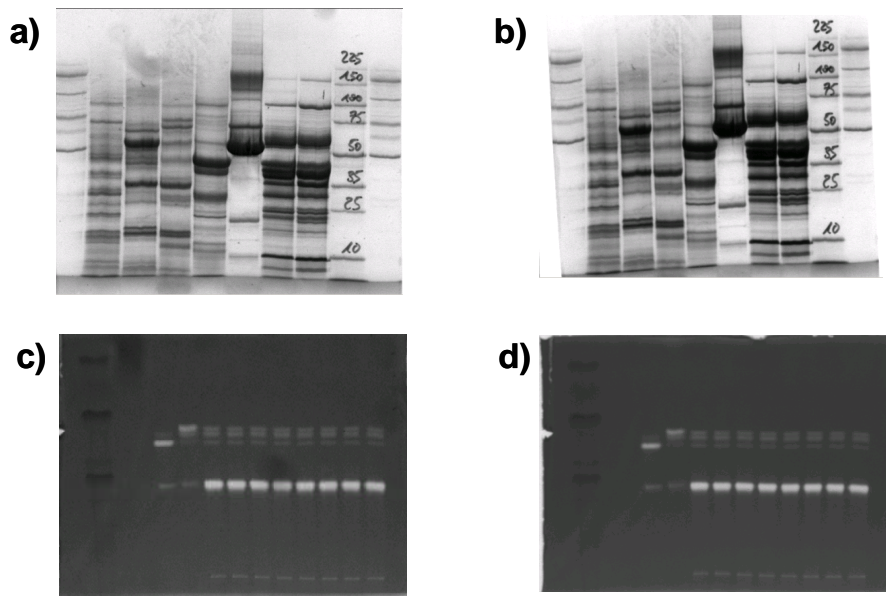


Figure 1- Coomassie blue and Zyma blue stained gels
 Coomassie blue stained gel imaged using either white light transmission for an exposure time of 89msecs **a)** and the NovaGlo converter screen for an exposure time of 70msecs **b)**, Zyma blue stained gel imaged using either white light transmission for an exposure time of 70msecs **c)** and the NovaGlo converter screen for an exposure time of 63msecs **d)**.

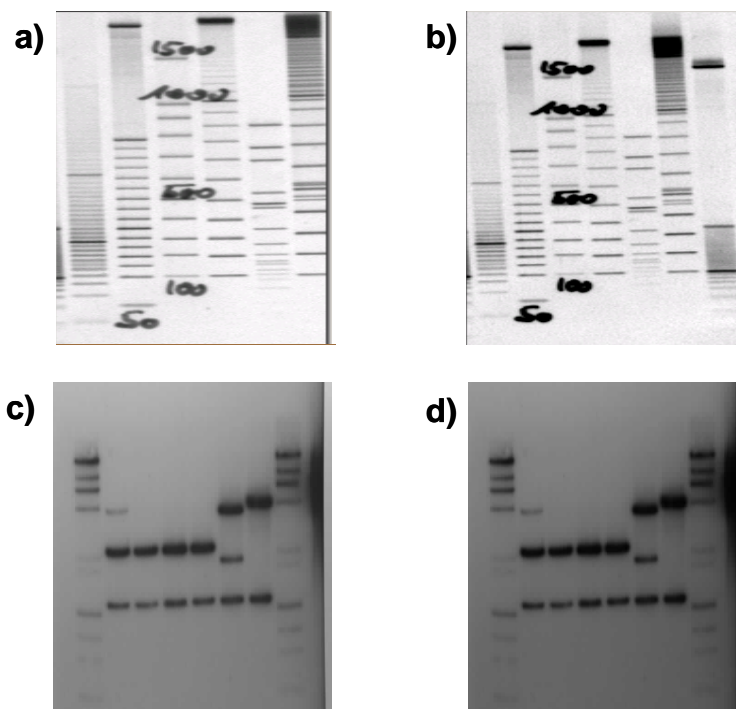


Figure 2- Silver stained gels and autoradiographs
 Silver stained gel imaged using either white light transmission for an exposure time of 86msecs **a)** and the NovaGlo converter screen for an exposure time of 76msecs **b)**, autoradiographs imaged using either white light transmission for an exposure time of 146msecs **c)** and the NovaGlo converter screen for an exposure time of 134msecs **d)**.