



PRESS RELEASE

Aplegen systems are configured to work with Stain-Free™ gels and blots

Researchers who use the stain-free™ gel technology [developed by Biorad] will be pleased to learn that they can be viewed using an Aplegen Gel Documentation system. A number of systems are now available in the range which can work with this particular technology to detect protein bands in gels and transfer membranes without the need of fluorescent or colorimetric stains.

The Stain-free™ technology is very easy to use. A trihalocompound in the gel matrix will cause the protein to fluoresce during the process of crosslinking which occurs after separation. Crosslinking occurs when the gel is exposed to UV light. Therefore, when using an Aplegen system that has a UV light source [transilluminator], the fluorescence can simply be imaged. The protein bands can be seen without the need for any staining immediately after the electrophoresis process.

It is also possible to use the Stain-Free™ process with western blotting. Here it can be used to quantify the total protein content. The total protein on a blot is once again viewed under UV light before any antibody incubation. The level of fluorescence from the bands is measured using the UltraQuant software which is Aplegen's main analysis tool.

Typically a gel using Stain-free™ technology is exposed to UV light for around 5 minutes. At this point an image of the now crosslinked gel is captured by the Aplegen gel imaging system. All of the Omega Lum gel documentation systems from the Aplegen range are capable of working with this technology.

Aplegen recommend the Omega Lum G for working with Stain-Free™ gels. Not only is the product very sensitive in all light levels but it is very competitive when looking at the price. No special trays or accessories are required to use the Aplegen system.

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Gel Company/Aplegen, 665 Third Street, Suite 240 San Francisco California, 94107 USA
European contact: Paul Ellwood, St John's Innovation Centre, Cambridge, UK. Email
paul@gelcompany.com. Tel +44 (0)1223 515440