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SMARTBLUETM

BLUE LIGHT TRANSILLUMINATOR

Make the move to *Blue* ...the smart alternative to UV

- Blue light does not damage nucleic acids
 Improved downstream cloning efficiency
- Uniform Illumination (UI) technology
 - Provides an evenly lit surface
 - Bottom up lighting, no reflection
- 465nm wavelength

 Optimal for green alternatives to EtBr
 - Two position amber filter cover -Angle for easy gel access -Remove for gel imaging

SMARTBLUETM BLUE LIGHT TRANSILLUMINATOR

Safer for samples, safer for you

New fluorophors have been developed to replace the traditional method of nucleic acid detection with toxic Ethidium bromide. They also eliminate the use of DNA damaging UV light, as they are visualized with blue light. The *SmartBlue* Transilluminator is the perfect partner for these new stains. It emits blue light at a wavelength of 465nm, perfect for excitation of most green fluorophors, including Accuris' *SmartGlow*[™], as well as many protein stains. Exposing DNA to this wavelength does not cause damage, and results in a much higher downstream cloning efficiency as compared to even short UV light exposures. In addition, the visible blue light is not damaging to the skin and is less harmful to the eyes.*

Two position filter cover

The *SmartBlue* transilluminator requires no special shielding, however, the light does need to be filtered for visualization of the dyes. The amber cover, which rests above the viewing surface and gel, filters out the blue light, allowing the bands to be seen clearly. The cover can be placed at a 60° angle to provide easy access to the gel for band excision. For documentation, the filter cover is easily removed completely.

Ul technology: bright and clear images

Engineered diffusers and filters provide an extremely evenly lit viewing surface. Even in ambient light, bands of DNA can clearly be seen in gels. Images obtained using the *SmartBlue* Transilluminator are brighter and more balanced than those obtained using epi-illuminators which light from the sides.

Reliable, durable and long lasting

An array of super bright LEDs with a long, 30,000 hour service life provide the light source for the *SmartBlue* Transilluminator. Unlike those in a UV transilluminator, the filters in the *SmartBlue* will not solarize and degrade in performance over time. Gel bands can be excised directly on the scratch resistant, glass viewing surface. To save energy, the power switch includes an automatic 5 minute shutoff. The *SmartBlue* Transilluminator is covered by a 2 year warranty.

Imaged with SmartDoc^{*}



Amber cover raised for _____easy gel access

Specifications

Light source Filter cover Exterior dimensions Electrical High intensity LEDs Amber, for filtering of blue light 12.8x8.5x1.9 in/30.5x21.5x5 cm 100-240V, 50/60Hz Output wavelength Viewing surface Weight Warranty Peak at 465nm 6.6x4.75 in/17x12 cm 1.2 kg/2.6 lb 2 years

imaging with a cell phone

Ordering InformationE4000SmartBlue Transilluminator, includes amber filter cover, 120VE4000-ESmartBlue Transilluminator, includes amber filter cover, 240VE5000-SDSmartDoc Imaging Enclosure for use with a smart phoneE5000-S90590nm filter, for removal of blue light in the SmartDocE4500-PSSmartGlow Pre-stain for nucleic acid gelsE4500-LDSmartGlow Loading dye with stain for nucleic acid gels

*Due to the high intensity of the LED lights, it is recommended not to stare directly at the viewing surface without the amber cover in place. The SmartBlue™ device uses technology under license from Clare Chemical Research, Inc. and is covered under US and International Patents.

