

FastGene[®] FFS-X

Next generation of gel documentation

Effortless
excellence



The all-in-one solution

An essential tool for your research needs

The FastGene® FAS-X is an impressive **stand-alone system**. Its elegant design and small footprint allow it to **fit into any laboratory environment**. No external computer is required. Enhanced interaction via the 13.3" full HD touch screen provides a **simple user experience**, while large storage capacity (16 GB) and network compatibility **improve data management and workflow efficiency**.



Perfect image quality

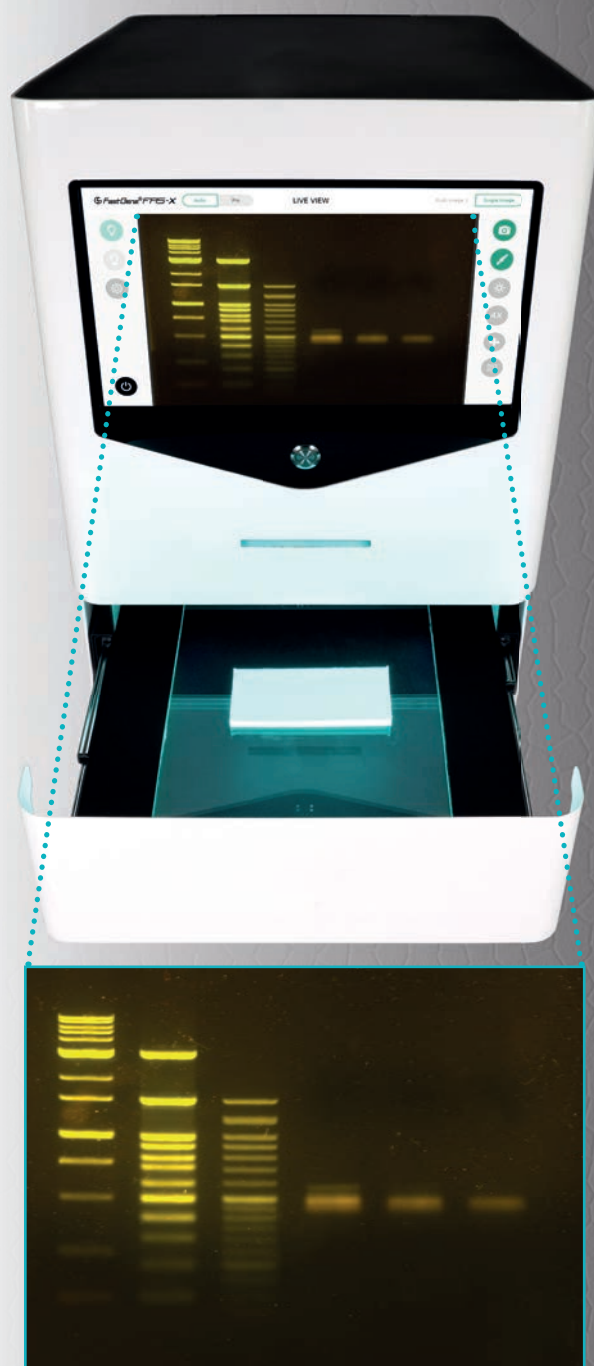
Don't let any band go unnoticed

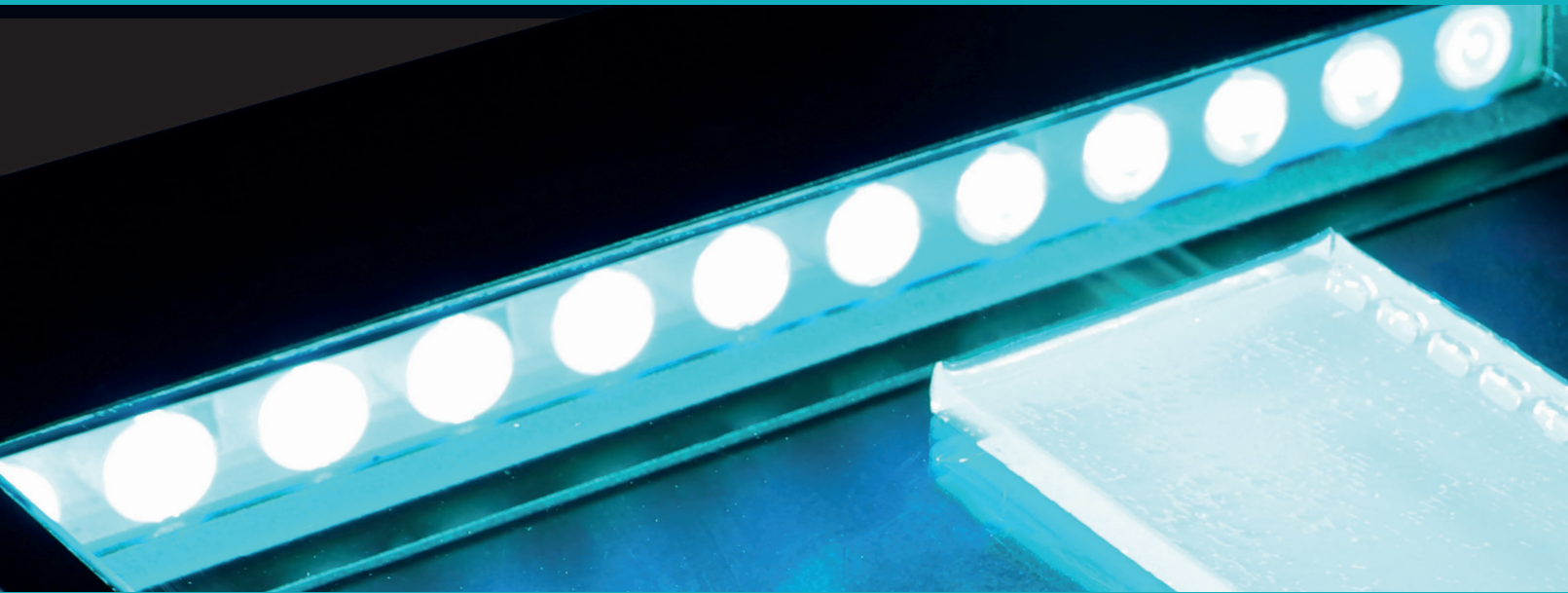
Equipped with a **20 MPixel colour camera**, FastGene® FAS-X provides **high resolution** gel images and **simplifies the process** of selecting the area of interest on your gel.

The camera's **scientific-grade 1 inch CMOS sensor** offers a remarkable sensitivity, detecting nucleic acids at concentrations as low as **2 ng**. This ensures that every detail is captured with precision for **publication-quality** images.

The giant transilluminator with a **viewing area of 26 cm x 21 cm** ensures perfect illumination of your gel.

The prefocused optical unit allows you to capture images without the need to refocus, saving you time and allowing you to capture images faster.





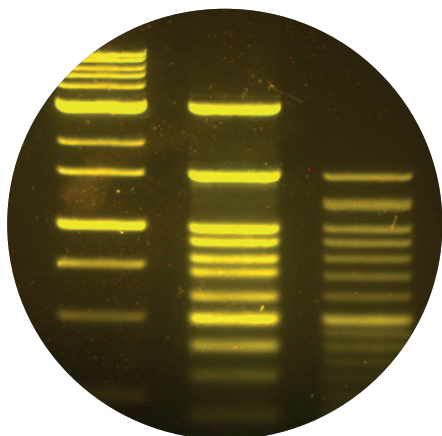
Revolutionary Blue/Green LED light

Protect yourself and your samples with Blue/Green LEDs

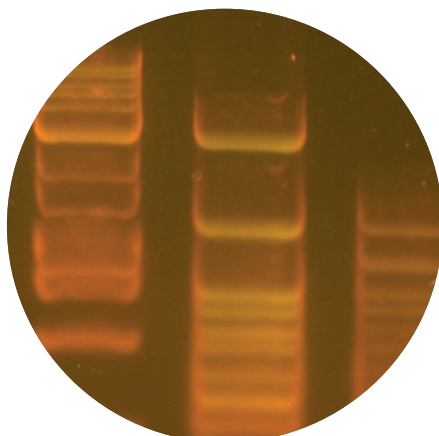
Commonly used UV light poses risks not only to the user but also to the sample. It's time to choose innovation! Blue/Green LED technology works within the wavelengths of a light spectrum ranging from 470 nm to 520 nm. This range of light is in the visible spectrum and is **not harmful to the user or the DNA sample**, making the gel documentation process safer.

Detect DNA, RNA & fluorescent-labeled proteins with highest intensity

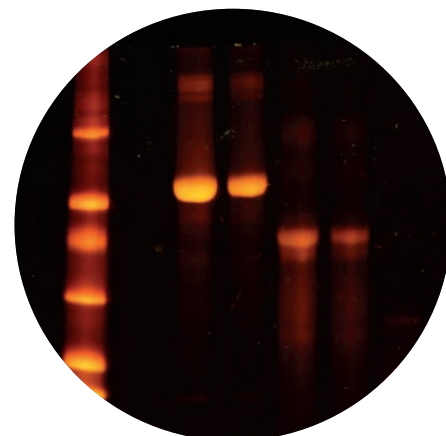
In addition to its remarkable safety, the integrated Blue/Green LED light effectively excites a wide range of common **green and red DNA/RNA dyes** as well as **fluorescent protein dyes** with very high intensity. This is achieved by accumulating the light energy absorbed by the fluorophores.



MIDORI^{Green} Xtra DNA stain



GelRed[®] DNA stain



SERVA Lightning Red protein stain



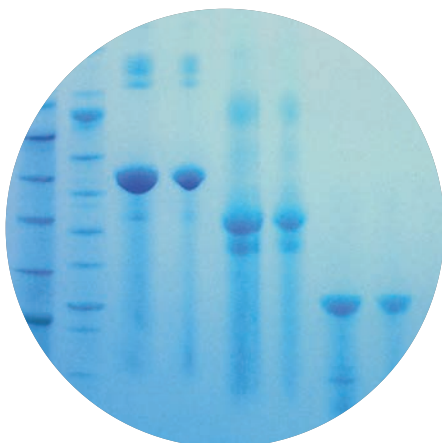
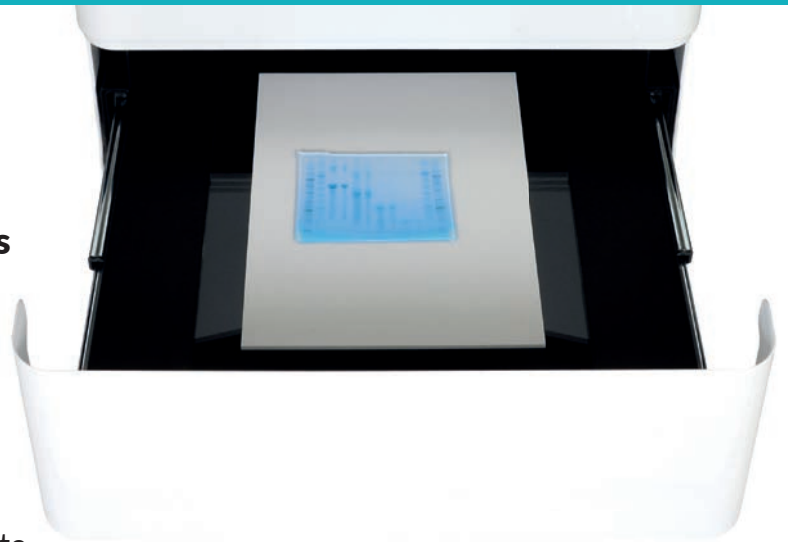
Powerful white light

Documentation beyond fluorescent gels

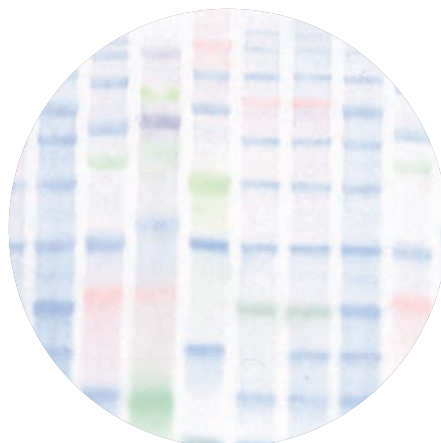
The filter wheel in the FAS-X offers the advantage of effortlessly switching between fluorescence (Blue/Green LED light) and the white light mode.

Together with the included white plate, the white light mode can be used to visualize **colourimetric PAGE protein gels** with an **impressive quality**.

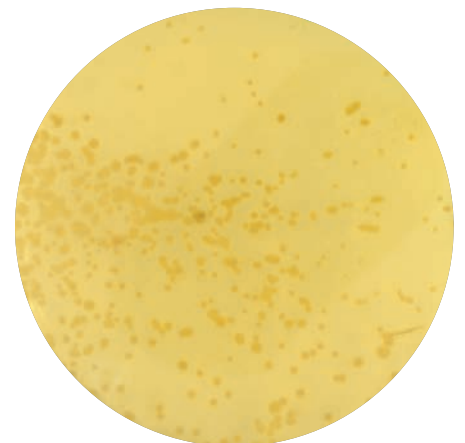
In addition, high-resolution images of (colourimetric) western blot membranes or bacterial colony plates can be obtained in white light mode.



Coomassie-stained PAGE protein gel



Western blot membrane



Bacterial colony plate

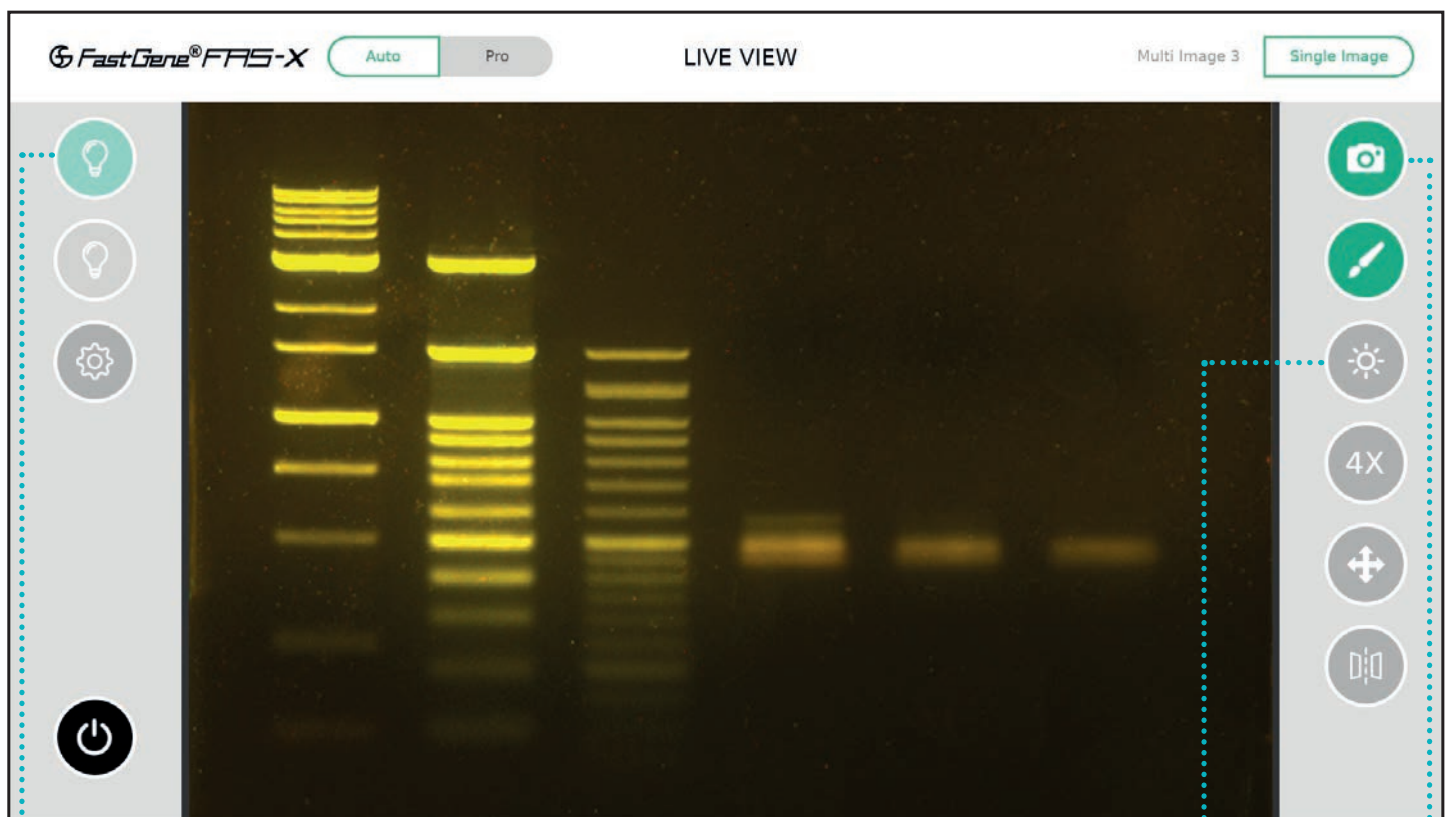
WELCOME TO

FastGene® FFS-X

Intuitive software

Only 3 taps to get the perfect gel image

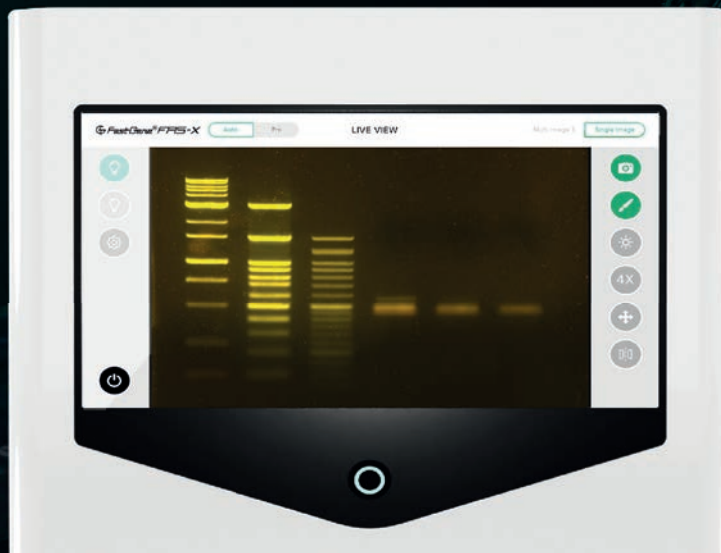
The creation of a perfect gel image has never been easier! The software ensures **effortless operation** of the instrument with an **intuitive and user-friendly interface**. It is made easily accessible via the **large high-resolution 13.3" touch screen**.



1. Turn on the Blue/Green LED lamps

2. Adjust the brightness

3. Capture the image



Choose which mode you want to use

Direct communication between the software and the camera enables fast image capture and **powerful live image editing**. The AUTO mode allows users to obtain the finest gel images **with just a few taps**. In the PRO mode you can fine-tune the **brightness, zoom in and change the colour scheme** (colour, monochrome and inverted colours) to get the image you want.

The **AUTO mode** automatically optimizes the image capture process for you.



The **PRO mode** gives you full control over the image capture settings.

The functionality of PRO mode extends to **multi-image recording** (3 or 5 images) with different exposure times. This allows you to scan and easily select the perfect exposure.



User password protection ensures **secure storage of your data**, preventing unauthorised access to your valuable information.



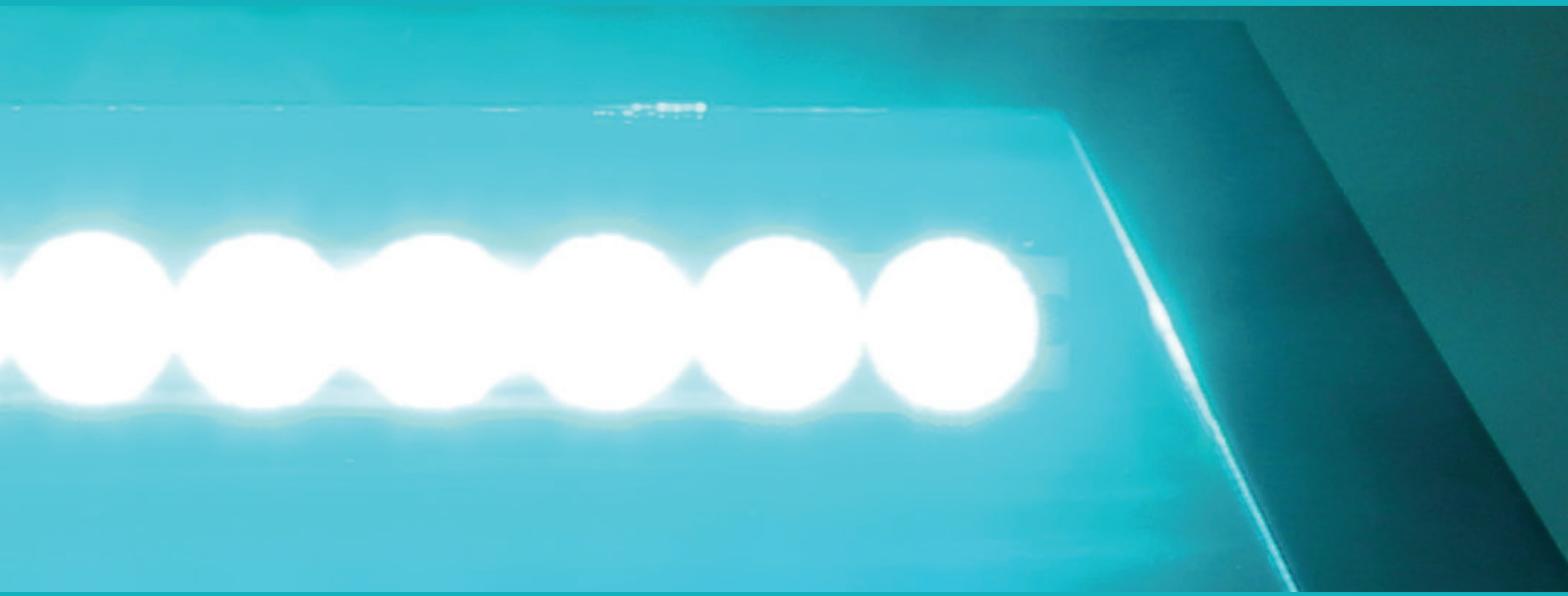
Technical specifications

See to believe

Camera	
Camera sensor type	Scientific-grade CMOS
Image resolution	20 MPixel, (5472 px x 3648 px)
Image format	JPEG, TIFF, PNG, BMP
Exposure time	13 μ s to 10 sec

Light sources	
Light sources	Blue/Green LED White LED light
Transilluminated area	26 cm x 21 cm
Blue/Green LED light	470-520 nm

Footprint	
Dimensions (H x D x W)	53.2 cm x 44.3 cm x 37.5 cm
Weight	20 kg



Display/Software/Connections

Display	13.3" full HD touchscreen
Display resolution	1920 x 1080
Internal storage	16 GB
Connections	LAN, 3x USB 3.0
Software	FAS-X imaging software
Rated Voltage	100-240 V, 50 / 60 Hz Power adapter 24 V, 6 A

Hood

Material	Coated aluminium material
Access	Loading drawer
Filter	Amber goggles
Status LED	Installed in the front

Workflow

NIPPON Genetics EUROPE DNA gel documentation portfolio

We offer products for the entire DNA gel documentation workflow. From agarose, gel casting and electrophoresis device, safe DNA dyes, DNA markers to the new FastGene® FAS-X gel documentation system with the best software to get a perfect gel image.



Agarose

- FastGene® Agarose (AG01, AG02)



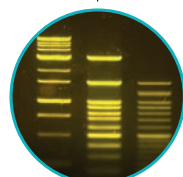
Gel electrophoresis system

- Mupid™-One (MU2)



Safe DNA staining

- MIDORI^{Green} Xtra (MG10)
- MIDORI^{Green} Easy (MG12)
- MIDORI^{Green} Direct (MG06)



DNA markers

- FastGene® 50 bp DNA Marker (MWD50)
- FastGene® 100 bp DNA Marker (MWD100)
- FastGene® 1 kb DNA Marker Plus (MWD1P)



Gel documentation system

- FAS-X (GP-FAS-X)



Ordering information

Cat. No.	Product
GP-FAS-X	FAS-X Gel documentation system



Get your personal demo of the FAS-X!

Get in touch with us and you will receive a complete product demonstration, or a demonstration adjusted to your specific needs!

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www.nippongenetics.eu/fas-x

MIDORI^{Green}
Xtra



MIDORI^{Green}
Easy



MIDORI^{Green}
Direct



Our set of MIDORI^{Green} dyes offers a perfect solution for different staining preparation or gel documentation conditions. MIDORI^{Green} Xtra and MIDORI^{Green} Easy are added to the melted agarose for gel staining. If direct addition of the dye to the samples is preferred, MIDORI^{Green} Direct is the stain of choice. All dyes perform best with visible light, especially with our Blue/Green LED light technology. No matter which MIDORI^{Green} dye you use for your applications, all give excellent DNA signals and are completely safe to use, as certified by external safety labs.



