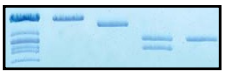
Blu-DNA Stain Buffer (Cat.: BS-001)

(View DNA on electrophoresis gels with natural light)



Description:

Blu-DNA stain buffer (1,000x) was developed to stain DNA or RNA on electrophoresis gels, detectable in the visible light ranges. Stored at room temperature, stable for 1 year.

Detection: Visible light/ nature light.

Sensitivity: Detect down to 100ng of DNA per band under nature light.

Toxicity: Non-mutagenic, Non-hazardous.

Compatible: Suitable for downstream cloning and sub-cloning applications.

Protocol-1 for staining DNA during electrophoresis:

1. **Prepare 1x Blu-DNA stain buffer in 0.5% - 2% of agarose gel solution containing 1x TAE/TBE and 0.5%-2% (w/v) agarose in a glass flask. (e.g. add 100ul of Blu-DNA Staining Buffer into 100ml of 1x TAE-agarose solution)**
2. **Heat in the microware until the solution is completely clear and no small floating particles are visible (about 2-3 minutes),**
3. **Pour the gel solution into a gel tray. After the agarose gel has solidified. The gel become blue and you can perform electrophoresis.**
4. **Mix 10ul of DNA samples (>100ng) with 2ul of 6x DNA loading buffer containing 1x TE buffer and 30% glycerol. Load samples into electrophoresis gel wells and run gel as usual.**
5. **(Optional) Place the gel into a water container after the electrophoresis if the DNA bands are weak. Gentle agitations 3 times for 5 minutes with distill water.**
   (The DNA Bands are best visualized when viewed against a white background; light blue or, even better, on a light box)

Protocol-2 for staining DNA after electrophoresis:

1. **Add 100ul Blu-DNA stain buffer into 100ml 1x TAE or TBE running buffer to obtain 1x Blu-DNA stain buffer.**
2. **After electrophoresis, place gels in 1x Blu-DNA stain Buffer and gentle agitation for 15-30 minutes at room temperature or overnight at 4°C until the blue bands are visible on gel.**
3. **(Optional) Place the gel into a water container if the gel is over-stained. Gentle agitations 3 times for 5 minutes with distill water.**
   (The DNA Bands are best visualized when viewed against a white background; light blue or, even better, on a light box)

Benefits: This method primarily eliminates the damage of DNA by uv irradiation and by Ethidium Bromide mutation. DNA isolated from blue stained gels should transform frozen competent E. coli (XL1-Blue and DH5) cells and obtain 20-50 folds more efficiently than Ethidium Bromide isolated DNA.

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