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EliDNA™ PS Red
Instructions for Use

Package:

Ref. No.	Package
ED04	1 ml
ED04s	50 µl

Storage:

The dye should be stored at 4 °C and protected from light. When stored under these conditions, the dye will retain full activity until the expiration date indicated on the label.

Product description

EliDNA™ PS Red is a new generation of a red fluorescent nucleic acid dye intended for gel staining. The dye is non-toxic and non-mutagenic. Therefore, making it a safer alternative to ethidium bromide. **EliDNA™ PS Red** can be used with a standard UV transilluminator (300 nm) the same way as ethidium bromide . Gels stained with **EliDNA™ PS Red** are compatible with various downstream applications such as gel extraction, cloning and many others.

Protocol

Prestaining:

Prepare the desired volume of agarose gel solution according to your protocol. For a 100 ml agarose solution add 4-6 µl of **EliDNA™ PS Red** and mix it properly. Allow the gel solution with the dye to cool down to ~60 °C before casting it into the gel tray. After the gel has solidified, load the samples and perform electrophoresis. Image the gel with a UV transilluminator.

Poststaining:

Prepare and run the agarose gel according to your protocol. For 100 ml of buffer or distilled water use 20-30 µl of **EliDNA™ PS Red**. Store the staining solution at room temperature in the dark. Use a suitable container and place the gel into the solution. Recommended staining time is 10-20 min. Depending on the thickness of the gel and its concentration, staining time and the volume of the dye may be adjusted.

Troubleshooting

- If you experience low fluorescence signal of DNA bands, try to add more dye. Signal intensity depends on the number of bends and their concentration.

- We do not recommend repeated melting of gel containing the dye. This may lead to reduced signal intensity.
- Smeared DNA bands may be caused by excessive DNA concentration. Reduce the amount of loaded DNA or perform poststaining.
- If there are any discrepancies in bands migration, try to reduce the amount of loaded DNA or use less dye.

Related products

REF	Name of product	UV light	Blue LED	Green/blue LED	In gel	Post-st.	Loading	dsDNA	ssDNA	RNA
ED01	EliDNA™ PS Green	✓	✓	✓	✓	✓	X	✓	✓[1]	✓[1]
ED02	EliDNA™ PS Green Plus	✓	✓	✓	✓	✓	X	✓	✓	✓
ED03	EliDNA™ PS Green Ultra[2]	✓	✓	✓	✓	✓	X	✓	✓	✓
ED04	EliDNA™ PS Red	✓	X	X	✓	✓	X	✓	✓	✓
ED05	EliDNA™ LD Green	✓	✓	✓	X	X	✓	✓	✓	✓
ED06	EliDNA™ LD Red	✓	X	X	X	X	✓	✓	✓	✓

[1] Since ssDNA and RNA are single stranded, you may experience a lower signal intensity.

[2] The dye with the highest sensitivity.

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Catalog number

Batch code


Use by (last day of month)


Upper limit of temperature


Manufacturer

Contains sufficient "N" tests