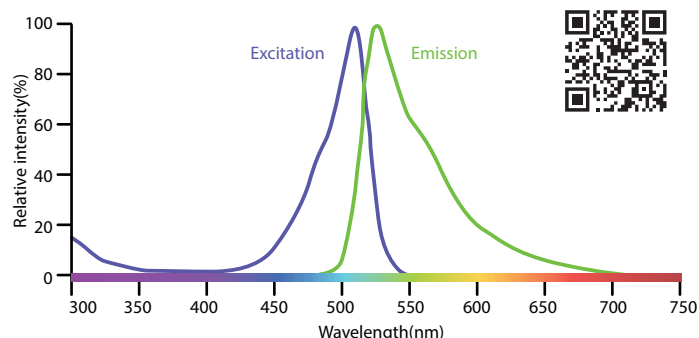


Major Red Plus stain 10,000X solution in dimethyl sulfoxide (DMSO)

- Non-toxic and no mutagenicity
- High sensitivity under blue light with an Amber filter and UV light with a SYBR filter
- Thermostable and suitable for in-gel staining
- High signal-to-noise with minimal background
- User-friendly, no destaining required
- Suitable for agarose/PAGE gels



Cat. Number	MRP-500
Unit size	500μL
Vial	Light-protected brown cryogenic vial
Detection method	Fluorescence
Fluorescence	Green
Excitation	~280nm and ~502nm
Emission	~530nm
Presentation	Liquid
Application Note	Nucleic acid detection
Concentration	10,000X solution in dimethyl sulfoxide (DMSO)
Storage	12 months at 2~8°C; 18~24 months at -20°C

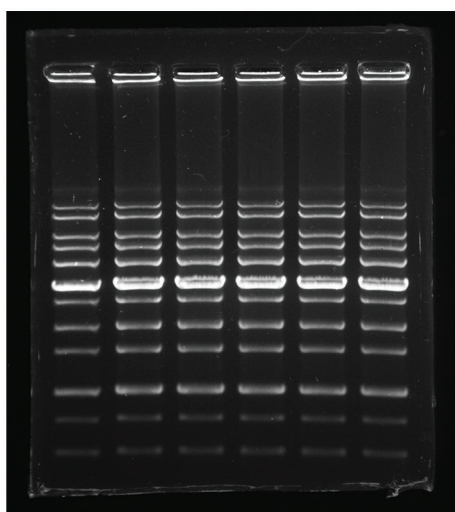


Protocol: Gel Casting Method (In-Gel Staining)

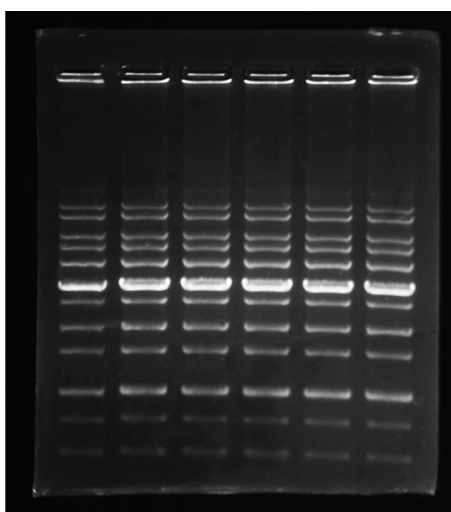
- Add Major Red Plus to molten agarose before casting the gel.
- Example: Add 2μL of Major Red Plus (10,000× concentrate) to 20mL of agarose solution.
- Perform electrophoresis as usual.
- Observation after electrophoresis:
 - Use a UV light or blue light transilluminator for visual observation, and always apply the appropriate and safety filter.
 - For gel documentation, use UV light or blue light as the source, and always apply the appropriate and safety filter.

Notes:

- This method is cost-effective: 500μL of Major Red Plus can prepare ~250gels (20mL per each gel).
- Due to its thermal stability, Major Red Plus can be added directly to hot agarose without cooling. Mix thoroughly by swirling, vortexing, or inverting. Alternatively, add dye to agarose powder and buffer before heating.
- Dye-containing agarose can be prepared in bulk and stored until use.
- Not suitable for precast polyacrylamide gels.



UVCI-2300 Blue light with Amber filter



UVCI-2300 UV light with SYBR filter

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