SmartGlow™ Pre Stain can be used the same way as Ethidium Bromide for agarose and polyacrylamide gel electrophoresis. The stain emits green fluorescence when bound to dsDNA or ssDNA and emits red fluorescence when bound to RNA. SmartGlow™ stain has two excitation peaks at approximately 290nm (UV light) and 490nm (Blue light).

SmartGlow™ products are considered safer than Ethidium Bromide. They are non-carcinogenic as determined by the Ames-test, with negative results in mouse primary spermatocycte chromosomal aberration tests and mouse marrow chromophilous erythrocyte micronucleus tests.

SMART
SAFE Nucleic Acid Stain
GLOW™

SmartGlow™ Pre Stain, for Nucleic Acid Electrophoresis Gels, Concentration 20,000X

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Protocol:

- Prepare 100ml of agarose (heat as required) or 100ml polyacrylamide solution.
- Add 5µl of SmartGlow™ stain to the gel solution.
- Mix gently, make sure there are no air bubbles.
- For agarose, allow the solution to cool to about 60°C to 70°C then pour the gel(s).
- For enhanced results, you can optionally add 5µl of SmartGlow™ stain per 100ml of the running buffer.
- Adding the stain to the running buffer can help in increasing sensitivity and detecting small quantities of nucleic acid.
- After the separation is complete, view the gel using a UV or blue light illuminator.

Add 5ul per 100ml of agarose solution

Pour the gel

For enhanced results, also add to running buffer

SmartGlow™ is for research use only

Ordering Information:
E4500-PS 1.0m SmartGlow™ Pre Stain, for Nucleic Acid Electrophoresis Gels, 20,000X
Storage: 4°C for 2 years

ACCURIS INSTRUMENTS
Benchmark Scientific
P.O. Box 709 Edison, NJ 08818 USA
Ph: 908-769-5555 EM: info@BenchmarkScientific.com

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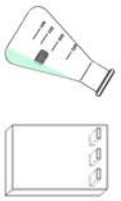
Add 5ul per 100ml of agarose solution



Pour the gel

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