YTA-SYBR Green I Nucleic Acid Gel stain , 10,000X concentration in DMSO

For research use only
Cat : YT0003
Size: 500 µl
Store: at -20°

YTA-SYBR Green I Nucleic Acid Gel stain is more sensitive than ethidium bromide (EB) and less mutagenic than EB. SYBR Green I Nucleic Acid Gel stain is ideal for detecting dsDNA in complex solutions, where ssDNA or RNA in the sample may obscure the results. SYBR Green I Nucleic Acid Gel stain is extremely versatile and easy to use. it can be used to visualize DNA bands in agarose gel electrophoresis by the methods of pre- or post-staining.

HOW TO USE:

1. **Pre-staining protocol:**
   Precast agarose or non-denaturing polyacrylamide gels (0.8-3.0%) with SYBR Green I Nucleic Acid Gel stain by diluting the stock reagent 1:10,000 into the gel solution just prior to pouring the gel.

2. **Post-staining protocol:**
   Use a plastic container, such as a pipet-tip box, because a glass container will adsorb much of the dye in the staining solution. Cover the staining container from light with aluminum foil or placing it in the dark. Agitate the gel at room temperature. Depending on the thickness of the gel and the percentage of agarose or polyacrylamide, the Staining time will vary. No destaining is required. The staining solution may be stored in the dark (preferably refrigerated) for a week or more and reused up to four times.

   Dilute 1:10000 for preparing staining solution (with a buffer of pH 7.5-8.0 such as TAE, TBE or TE) After electrophoresis, place the gel in a staining tray and cover it with staining solution .Let it for about 30minutes or 1hour.
   Detect the bands under UV illuminator. After staining visualize the gel using UV or blue light.