Protocol No. 4

Staining Protocol: SYBR / EtBr

SYBR Green or Gold:

1. 5 µl or the undiluted dye (as delivered by manufacturer) is diluted in 50 ml of distilled water (ddH_2O).
   Note: SYBR dyes bind glass ➙ use a plastic container to prepare the staining solution.

2. Add the staining solution and the gel to the Easy Stain Gel Tray (Elchrom P/N 2344 or 2344-L) and stain for approximately 20 to 45 minutes on a shaker at low speed. The precise staining time will depend on the DNA concentration of the samples.
   Note: SYBR dyes are light sensitive ➙ protect the staining solution from light.

3. Optional: destain the gel in destaining solution (Elchrom P/N 3037 diluted in ddH_2O) for up to 45 minutes depending on the background.

4. Visualise the bands on a UV-transilluminator (254 nm, appropriate filter fitted).

Ethidium Bromide (EtBr):

1. Dilute the EtBr in ddH_2O to a final concentration of 0.5 µg/ml.

2. Add the staining solution and the gel to the Easy Stain Gel Tray (Elchrom P/N 2344 or 2344-L) and stain for approximately 20 to 45 minutes on a shaker at low speed. The precise staining time will depend on the DNA concentration of the samples.
   Note: EtBr is light sensitive ➙ protect the staining solution from light.

3. Optional: destain the gel in destaining solution (Elchrom P/N 3037 diluted in ddH_2O) for up to 45 minutes depending on the background.

4. Visualise the bands on a UV-transilluminator (254 nm, appropriate filter fitted).

Elchrom Scientific AG, Gewerbestrasse 8, 6330 Cham, Switzerland
Tel +41 41 747 25 50, Fax +41 41 743 25 36, service@elchrom.com, www.elchrom.com