INSTRUCTIONS MANUAL

SERVA HPE™ Coomassie® Staining Kit Cat. No. 43396

Product description:

Components	Solution A: 1000 ml ; Solution B: 25 ml
Application	SERVA HPE Coomassie Staining Kit is a highly sensitive staining method for 1D and 2D gels after electrophoresis on the basis of colloidal Coomassie Blue G®*, that uses dist. water as a destain. All reagents are MS compatible.
Features	• Very low background staining, ideal for densitometric analysis • Concentrate contains neither ethanol nor methanol • Detection limit (for BSA): ca. 30 ng • Sufficient for 4 large HPE 2D gels (format: 25.5 x 20 cm)
Storage Conditions	After delivery store at room temperature. The concentrate is stable until: see Certificate of Analysis

Instructions for use:

Note: *The colloidal dye in* ***Solution B*** *will form a sediment at the bottom of the container. You have to shake well before use.*

Staining

1. **SDS PAGE:** Fix gels 2x 1 h with 15 % Ethanol, 1% citric acid. **Native gels:** Fix gel in 20 % (w/v) trichloroacetic acid for 20 min.
2. Wash the gel for about 5 min in distilled H_2O before staining.
3. Mix the **dye solution** containing **98 % (v/v) Solution A, 2 % (v/v) Solution B,** stir for several hours, optimally overnight.. To get the final **staining solution** mix **80 % (v/v) dye solution and 20 % (v/v) ethanol**. For a large 2D gel, the volume of the staining solution should be at least 300 ml.
4. **Stain** gel with gentle shaking (shaker with ca. 50 – 100 rpm) for at least **3 hours**. Staining over night is optimal. The staining time will be reduced by half when staining is performed at 40 °C to 45 °C.

Destaining Wash gel after staining in dist. H_2O with regular exchange of the H_2O The band intensity will increase significantly after neutralization in water. Instead of H_2O, it is also possible to use 20 % (v/v) methanol to reduce the background.

Note: During staining with solutions containing no alcohol gels not bound to a support film may swell. Gels can be reshaped by addition of 20 – 30 % alcohol during destaining of the gels in water. Do not add alcohol to the staining solution as this will increase the background staining.

**Coomassie is a tradename of ICI, UK*

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