

## InstaBlue Protein Stain Solution

### Introductions

InstaBlue Protein Stain Solution is a ready to use Coomassie protein stain for polyacrylamide gels. Its unique patented mechanism of action stains proteins in 5 minutes while leaving a clear background without the need to fix, wash or destain. InstaBlue Protein Stain Solution is formulated for safe use and easy disposal.

InstaBlue Protein Stain Solution is very convenient for use and needs only simple one step protocol to finish the rapid coomassie blue staining of protein gels. Some premade and traditional home-made Coomassie R-250 protein stains can take 3 hours or more to fully stain gels.

Because of InstaBlue's protein specific staining which gives a clear background, improving the signal/noise ratio of the stain, InstaBlue Protein Stain Solution has high sensitivity and can detect protein levels as low as 5 ng per band when staining overnight. InstaBlue Protein Stain Solution is non-toxic and thanks to its methanol free composition will not shrink gels. InstaBlue will stain at least 40 mini-gels per 1 L, staining with only 25mL per mini-gel, which allows you to use less protein staining solution. While homemade solutions and some pre-mixed solutions need approximately 50-100mL for staining one gel.

### Materials

#### Components and storage

Components	Amount	Storage
InstaBlue Protein Stain Solution	500 mL	Store at room temperature for 2 years
	1L	

### Protocols

(1) After electrophoresis remove the gel from the tank and transfer directly into the InstaBlue Protein Stain Solution. Place Gel and InstaBlue Protein Stain Solution in the microwave to heat up until slightly hot. Be sure that the gel moves freely in stain to facilitate diffusion. Typically, ~20 mL is needed to cover the gel.

(2) Colored protein bands will start to develop immediately, and a suitable intensity is typically achieved after 5-15

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minutes incubation at room temperature with gentle shaking.

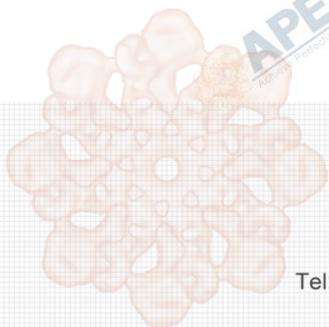
(3) Transfer the gel in ultrapure water with gentle shaking for 5min.

(4) Photograph your gel when the required intensity has been achieved. Gels can be kept in staining solution but ensure that the gel remains covered with liquid. Close container to reduce evaporation of InstaBlue. Alternatively, the gel can be stored in ultrapure water after staining for 1 hour in InstaBlue.

(5) Once used, the staining solution can be reused for 1-2 times. InstaBlue is provided as ready-to-use solution and should not be diluted.

## Notes

The staining solution is a suspension, please be sure to mix it upside and down before use!



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