Xpert Safe Protein Stain

GS23.1000 (1L)

(FOR RESEARCH ONLY)

Product:

Coomassie Brilliant Blue G-250 (CBB) is widely used for visualizing proteins after electrophoresis. The procedure normally involves lengthy fixing, staining, and destaining steps. Moreover, it requires glacial acetic acid and methanol, which must be disposed of as hazardous waste.

Xpert Safe Protein Stain consists of a colloid solution of CBB G-250 that is non-toxic and non-hazardous. The procedure does not require a fixing step and washing can be carried out using water, making in-gel staining both safer and less expensive.

Applications:

In-gel staining of proteins. Suitable for acrylamide and agarose gels.

Protocol:

In order to maintain solution colloidal, before every usage, shake Xpert Safe Protein Stain.

After electrophoresis, place the gel in a suitable container and:

1) Wash once or twice with deionized water.
2) Discard the water and cover the gel with Xpert Safe Protein Stain.
3) Stain with gentle agitation until bands appear (20 min to 2 hours).
4) Once bands are visually strong enough, discard Xpert Safe Protein Stain and wash with deionized water until any background staining is removed and protein bands appear more intense.
5) Gel is ready for imaging and analysis and can be stored in water for one or two days without significant decrease of band intensities.

Notes: *Maximum sensitivity is obtained after 10-20 hours of staining. In case of running very small quantities of protein, staining can take place overnight, followed by extensively washing with deionized water for visualization. During staining cover the container to prevent evaporation. Maximum signal-to-background level is obtained after 3 hours of washing. Change water at least 3 times.*

Storage:

Store at room temperature, protected from light, for at least 1 year.

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