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A Geno Technology, Inc. (USA) brand name

## Ponceau-S Stain

### INTRODUCTION

Ponceau S is a rapid and reversible stain for detecting protein bands on Western blot membranes and can be used with PVDF, nitrocellulose and cellulose acetate membranes\*. Ponceau S is a negative stain, which binds to the positively charged amino groups of the protein and it also binds non-covalently to non-polar regions in the protein. Microgram quantities of transferred protein can be detected with Ponceau-S Stain, which generates reddish pink protein bands with a clear background. Since, Ponceau-S staining is reversible, it allows further immunological detection. The limit of detection for this stain is 100ng BSA/band transferred to nitrocellulose membranes (*Aebersold, R. et al (1987) Proc. Natl. Acad. Sci. USA, 84:6970*). This stain does not produce a deleterious effect on the sequencing of blotted polypeptides and is therefore one method of choice for locating polypeptides on Western blots for blot-sequencing.

**NOTE:** \*This stain is not suitable for Nylon membranes, since it binds strongly to the membrane because the nylon is positively charged and the stain is negatively charged, therefore the stain is electrostatically held and does not destain.

### ITEMS SUPPLIED

Cat. #	Description	Size
786-575	Ponceau S Stain	250ml, suitable for 50 Mini blot (8.5cm x 7.5cm)
786-576	Ponceau S Stain	500ml, suitable for 100 Mini (8.5cm x 7.5cm)

### STORAGE

Shipped at ambient temperature, store at room temperature upon arrival.

### PROTOCOL

1. Following Western blotting, transfer the membrane to 5ml Ponceau S Stain solution
2. Place on an orbital shaker for 5 minutes at room temperature.
3. Rinse membrane with DI water to achieve desired staining, approximately 2-3 washes of 5 minutes each will remove the background staining.
4. For total protein destaining, use a 0.1N NaOH solution. Wash the membrane with 0.1N NaOH solution for 5 minutes. Discard wash solution and repeat once.  
**NOTE:** Do not use alcohols or acetic acid for destaining.
5. Wash the membrane 2-3 times with DI water for 5 minutes each.
6. Continue with Western blot/ immunoblot procedure.

### RELATED PRODUCTS

- I. **Swift™ Membrane Stain** (Cat. # 786-677): A reversible, ready-to-use membrane stain for proteins on nitrocellulose or PVDF membranes. Stains proteins as swift as the routinely used Ponceau-S stain, but is a more sensitive and stronger stain allowing for greater protein detection and simpler image capture. The lower detection limit is ~0.5ng protein (BSA)/band on nitrocellulose membrane.
- II. **Efficient™ Western Transfer Buffer** (Cat. # 786-019): A 20X concentrated transfer buffer that has improved transfer efficiency compared to leading competitor's transfer buffers.
- III. **femtoLUCENT™ PLUS** (Cat. # 786-10): A femtogram level sensitive immunodetection system allows users the option to detect even hard-to-detect low abundance proteins. This immunodetection system is based on an innovative formulation of luminol and 1,2 dioxetane supersensitive detection reagent. Also available with secondary antibodies.

For additional related products, visit [www.GBiosciences.com](http://www.GBiosciences.com).

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