

## Ponceau S Solution

#GB21.0500

(for research only)

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| <b>Product:</b>  | ready-to-use Ponceau S solution for the reversible staining of proteins blotted onto nitrocellulose or PVDF membranes. |
| <b>Quantity:</b> | 500ml  |
| <b>Storage:</b>  | 2°C – 25°C for at least 1 year.  |

Ponceau S Solution allows for the rapid and reversible detection of proteins on nitrocellulose and PVDF membranes for the verification of the transfer efficiency of Western Blotting before proceeding with incubation with primary antibody. Transfer artifacts, such as uneven transfer or bubbles, can be quickly detected, preventing continuation with imperfect membranes, saving you time and expensive antibodies. Ponceau S does not damage the antigen or has any deleterious effects on the sequence of blotted proteins and polypeptides and is therefore the method of choice for location for blot-sequencing. Staining can be carried out in less than 5 minutes and destaining also takes only a few minutes of incubation in water. After destaining, one can proceed immediately with subsequent steps of the Western Blotting protocol

### Short Protocol

1. After Protein Transfer, wash the blot with plenteous pure water, for 10 minutes.
2. Immerse the blot in 5-20ml of Ponceau S Solution (>0,2ml/cm<sup>2</sup> membrane), and stain for 5 minutes, using an orbital shaker
3. Decant the protein staining solution and rinse the membrane with sufficient amounts of pure water, until the background is reduced. Prolonged rinsing might lead to destaining of protein bands.
4. Image the blot for permanent record and destain the blot in pure water for 10-20 minutes, or alternatively with 0.1M NaOH, using an orbital shaker. Note that complete destaining is only achieved in the subsequent blocking step and that the Ponceau S stain will not interfere with either blocking or antibody binding steps.
5. Continue with the Western Blotting procedure as normal.

### Bibliography

Gallagher, S. *et al.*(2008) Immunoblotting and immunodetection. In: Curr Protoc Mol Biol 83:III 10.8.1-10.9.28

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