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ab270042

Ponceau S Solution

A product of Expedeon, an Abcam company

Applicable to Expedeon product codes 5999-1L.

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Ponceau S Solution datasheet:
www.abcam.com/ab270042
(use www.abcam.cn/ab270042 for China, or www.abcam.co.jp/ab270042 for Japan)

For the verification of the efficiency of electrophoretic transfer of SDS-denatured proteins to nitrocellulose and PVDF membranes.

This product is for research use only and is not intended for diagnostic use.

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1. Overview

Ponceau S solution (ab270042) is a ready-to-use reversible stain which allows you to check the efficiency of electrophoretic transfer of SDS-denatured proteins to nitrocellulose and PVDF membranes. As little as 250 ng protein can be rapidly visualised with Ponceau S stain. Following staining, membranes can be de-stained with any buffer of pH > 7 or by transfer of the membrane into blocking buffer (e.g. TBS/BSA).

2. Materials Supplied and Storage

Store product at room temperature upon receipt.

Item	Quantity	Storage temperature
Ponceau S Solution	1 L	Room temperature

∆ **Note**: *1L reagent, containing Ponceau S and acetic acid in water.*

3. Assay Procedure

3.1 After the transfer of proteins to the membrane of choice by western blotting, place the membrane in a suitable container and submerge the membrane in Ponceau S Solution (i.e. <u>before</u> membrane blocking). Agitate gently at room temperature.

3.2 Coloured protein bands will start to develop immediately, with maximum intensity typically reached within 1-5 minutes of incubation.

3.3 Remove membrane and rinse briefly with deionised water.

3.4 Red-coloured bands should be visible, with little background staining on the membrane. (PVDF membranes may give higher backgrounds, but this does not hinder the assessment of whether electrophoretic transfer has been successful. Wash with 1-5% acetic acid for 5-10 minutes if a lower background is needed).

3.5 If the protein bands are to be excised for sequencing, remove the Ponceau S by transferring the membrane to buffer of pH > 7 e.g. TBS pH 8.0, followed by a water wash. For western blotting analysis the membrane can be directly transferred to a preferred blocking buffer (e.g. BSA/TBS-T) which will automatically de-stain the membrane. Once blocking is complete, proceed with your normal primary/secondary antibody incubations.

4. Frequently Asked Questions

4.1 Is Ponceau S solution suitable for both nitrocellulose and PVDF membranes?

Yes, it is. Ponceau S Solution has been tested on both nitrocellulose and PVDF membranes and it provided reproducible data as well as a high signal-to-noise ratio.

4.2 Is Ponceau S solution suitable with different blocking agents other than BSA?

Yes, it is. Ponceau S Solution is suitable with the most common-use blocking agents, such as non-fat dry milk (3-5%), casein (1%) and fish skin gelatin (1%).

4.3 What is the recommended dilution for Ponceau S solution ?

Ponceau S Solution is provided as a ready-to-use 1X solution

4.4 Can Ponceau S solution be used to detect proteins under both reducing and non-reducing conditions?

Yes, it can. Ponceau S Solution has been tested on proteins run under both reducing and non-reducing conditions, with both conditions showing equal sensitivity of detection and reproducibility.

4.5 What is the limit of detection for Ponceau S solution?

Ponceau S Solution can stain as little as 250 ng of Bovine Serum Albumin on a nitrocellulose membrane.

5. Notes

Technical Support

For all technical or commercial enquiries please go to:

www.abcam.com/contactus

www.abcam.cn/contactus (China)

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