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A Geno Technology, Inc. (USA) brand name

# Swift™ Membrane Stain

Rapid, Sensitive and Reversible Protein Stain

For PVDF and Nitrocellulose Membranes

(Cat. # 786-677, 786-677S)



think proteins! think G-Biosciences [www.GBiosciences.com](http://www.GBiosciences.com)

## INTRODUCTION

Swift™ Membrane Stain is a unique, proprietary (patents pending), reversible, ready-to-use membrane stain for proteins on nitrocellulose or PVDF membranes. Swift™ Membrane Stain stains proteins faster and with 500X more sensitivity than the routinely used Ponceau-S stain and other commercially available stains. The lower detection limit of Swift™ Membrane Stain is ~0.5ng protein (BSA)/band.

Swift™ Membrane Stain only stains proteins resulting in a clear background and no requirement for additional steps to remove background. The stronger staining allows for easier image capture due to the strong blue stain on a clear, white background.

Swift Membrane Stain™ can be completely removed from the membrane in <1 minute without affecting the biological or immunological properties of the immobilized proteins. This offers an advantage over Coomassie based stains as these are irreversible and can interfere with Western blotting.

## ITEM SUPPLIED

| Cat. #                | 786-677 | 786-677S |
|-----------------------|---------|----------|
| Swift™ Membrane Stain | 250ml   | 25ml     |
| Swift™ Destain [5X]   | 200ml   | 20ml     |

The kit components are sufficient for 20 blots (786-677) or 2 blots (786-677S) of 8 x 8cm size.

## STORAGE & STABILITY

The kit is shipped at ambient temperature. Upon arrival, store reagents at room temperature, storing reagents at 4°C will severely affect the performance of the stain. The kit components are stable for 12 months, when stored and handled properly.

## ITEMS NEEDED BUT NOT SUPPLIED

- Staining trays (slightly larger than membrane)
- Orbital shaker

## PREPARATION BEFORE USE

1. **1X Swift™ Destain:** Add 10ml Swift™ Destain [5X] to 40ml deionized water for each blot and store at room temperature until required.

## PROTOCOL

These instructions are for a single 8 x 8 cm membrane. Increase the reagent volumes with larger membranes.

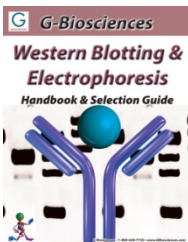
- Following protein transfer to a membrane, place the membrane in a suitable tray
  - For PVDF Membranes:** Add 20ml 100% methanol and rinse for 10-30 seconds. Discard the methanol and immediately add 12ml Swift™ Membrane Stain. *Note: Ensure a suitable sized tray is used to ensure the membrane is covered by the stain.*
  - For Nitrocellulose Membranes:** Add 20ml deionized water and rinse for 30 seconds. Discard the wash and add 12ml Swift™ Membrane Stain. **NOTE:** *Ensure a suitable tray is used so the membrane is covered by the stain.*
- Place the trays on a rocking shaker. Protein bands appear in ~30 seconds. *Note: PVDF membranes need vigorous shaking to ensure they are covered in stain. At the beginning of staining they float on the stain.*
- Rinse the membrane in DI water to remove the staining solution for improved image capture by scanning or photography. The membranes can also be allowed to dry to generate a permanent record.
- For rapid de-staining of the membranes, rinse the membrane in DI water to remove staining solution.
- Wash the membranes for 30-60 seconds in 50ml 1X Swift™ Destain, or until the stain has been removed.
- Once de-stained, rinse in DI water and store the blot in DI water until required.

## BACKGROUND STAINING

Background staining depends on the types of membrane used for protein transfer. Nitrocellulose gives the clearest and most brilliant white background. Some PVDF membranes may give higher background. Background staining can be removed by shaking the membrane 5-10 minutes in cold water.

## RELATED PRODUCTS

Download our Western Blotting Handbook.



<http://info.gbiosciences.com/complete-western-blot-handbook--selection-guide/>

For other related products, visit our website at [www.GBiosciences.com](http://www.GBiosciences.com) or contact us.



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