



## Product Information

### Blot Stain Blue Reversible Northern Blot Staining Solution 10x Concentrate

Product Code **B 1177**  
Store at Room Temperature

#### Product Description

Blot Stain Blue is a proprietary reversible staining solution for Northern blots. Staining RNA after transfer to a nylon or nitrocellulose membrane permits monitoring the quality of the transfer and seeing the exact position of the markers. Staining with Blot Stain Blue takes only 15 minutes and does not interfere with subsequent hybridization procedures. The dye will be removed during prehybridization incubation.

#### Reagents required but not provided

(Product Codes are given where appropriate)

- 10% (v/v) acetic acid (Prepared from Product Code A 0808)
- Water, molecular biology grade, Product Code W 4502
- QuickDraw™ blotting paper, Product Codes P 8549, P 7921, or P 8171

#### Precautions and Disclaimer

Blot Stain Blue is for laboratory use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Procedure

1. After completion of the Northern blot, crosslink the RNA to the membrane by UV irradiation, according to the membrane or crosslinker manufacturer's instructions.  
Note: If the membrane will be baked, the baking should be done after completion of staining (see step 8).
2. Soak the membrane in 10% (v/v) acetic acid for 5 minutes.
3. Dilute Blot Stain Blue 10x concentrate 10-fold with molecular biology grade water to prepare a 1x Blot Stain Blue Working Solution.

4. Remove the excess acetic acid and cover the membrane with 1x Blot Stain Blue Working Solution. There is no need to rinse the membrane prior to the addition of the 1x Blot Stain Blue Working Solution. Be sure to completely cover the membrane.
5. Agitate the membrane gently for 1-2 minutes.
6. Remove the excess 1x Blot Stain Blue Working Solution and wash the membrane twice for 1-2 minutes with molecular biology grade water, until the background is very light blue.  
Note: Do not destain too long, as the stain is not permanent.
7. Blot the membrane on a piece of clean QuickDraw blotting paper.
8. If the RNA was not crosslinked by UV irradiation, place it between two clean sheets of QuickDraw blotting paper and bake at 80 °C for 2 hours or according to the membrane manufacturer's instructions.
9. If a permanent record is required, photograph or photocopy the blot before hybridization. The hybridization steps will remove the stain.
10. The stained blot may be kept after staining. For long term storage of more than a few days, it is recommended to dry the blot for 30 minutes at 80 °C and then store the blot in a sealed plastic bag at -20 °C.

11. Blot Stain Blue has no effect on efficiency of radioactive hybridization procedures. For non-radioactive hybridization procedures, remove the Blot Stain Blue by washing the membrane in 2x SSC containing 0.1% SDS. Stripped blots may be restained with Blot Stain Blue, but there will be high background due to the DNA in the first hybridization buffer. Blot Stain Blue is not recommended as a method for checking the integrity of the Northern blot prior to reprobing.

#### **General References**

1. Maniatis, T., et al., Molecular Cloning: A Laboratory Manual. Cold Spring Harbor Laboratory, N.Y. (1989).
2. Ausubel, F.M., et al., Short Protocols in Molecular Biology. John Wiley and Sons, Inc., USA (1995).

#### **Related Products**

##### Electrophoresis

Agarose, Product Code A 9539  
RNA Marker, Product Code R 7644

##### Transfer

Nylon Membranes, Product Codes N 6517, N 1264,  
N 1389, and N 0144

##### Hybridization

PerfectHyb, Product H 3157  
Premixed Blocking Buffer-Gelatin, Product Code  
G 7663  
Premixed Blocking Buffer-Casein, Product Code  
C 7594

##### Probe Labeling

All-in-One Nick Translation Labeling Mix –dCTP,  
Product Codes N 9155 and N 8530  
All-in-One Nick Translation Labeling Mix –dATP,  
Product Codes N 8405 and N 9280  
All-in-One Random Prime Labeling Mix –dCTP,  
Product Codes R 7522 and R 9647  
All-in-One Random Prime Labeling Mix –dATP,  
Product Codes R 7022 and R 9522

NDH/MAM 6/03