

# KPL Silver Enhancer Kit

## for Membrane Applications

Catalog No.  
5450-0012 (50-22-02)

Size  
500 mL

### DESCRIPTION

KPL Silver Enhancer Kit for Membrane Applications is a sensitive and simple method for the enhancement of gold labeled samples when viewed in blotting applications. The resulting brown/black stain is permanent and offers sharp resolution.

### CONTENTS

This kit contains:

KPL Silver Enhancer MB Solution A  
KPL Silver Enhancer MB Solution B

### STORAGE/STABILITY

Store at 2 - 8°C. Stable for a minimum of 4 months from date of receipt when stored at 2 - 8°C. **DO NOT FREEZE.** Do not expose to extreme heat or light.

### APPLICATIONS

The KPL Silver Enhancer Kit for Membrane Applications is suitable for use in enhancing the sensitivity of 40 nm gold conjugates when used in blotting applications such as dot blots or Western Blots.

### PROCEDURE

1. Apply the gold conjugated primary antibody or primary antibody followed by a gold conjugated secondary antibody, and incubate as instructed.
2. Wash as instructed.
3. Mix equal volumes of KPL Solution A and KPL Solution B into an appropriate size plastic tube. The recommended volume is 5 mL/strip or 50 – 100 mL/sheet.
4. Incubate the membrane with prepared KPL Silver Enhancer. **NOTE:** The incubation time may need to be optimized depending upon the assay system. Generally the development time is 30 - 45 minutes.
5. After suitable color intensity is observed, stop the reaction by rinsing the membrane in deionized water under a continuous stream for 2 - 5 minutes.
6. Allow the membrane to air dry. Store sealed in plastic.

### PRODUCT SAFETY AND HANDLING

See SDS (Safety Data Sheet) for this product.

### RELATED PRODUCTS

KPL Silver Enhancer Kit for  
Microscopy Applications

### CAT. NO

5520-0021 (50-22-01)

### TROUBLESHOOTING GUIDE

Problem	Possible Cause	Corrective Measure
<b>Excessive Development and/or Background</b>	Silver enhancer incubation time too long.	Shorten/optimize silver enhancer incubation time.
<b>Poorly Defined Bands</b>	SDS PAGE not optimized.	Optimize gel electrophoresis conditions.

### REFERENCES

1. Danscher, G., Hacker, G., et. al., *J. Histochemistry*, 16(3):201-207, 1993.
2. Hacker, G., Grimelius, L., et. al., *J. Histochemistry*, 11(4):213-221, 1988.
3. Holgate, C., Jackson, P., Cowen, P., and Bird, C., *J. Histo/Cytochemistry*, 31(7):938-944, 1983.
4. Danscher, G., *Histochemistry*, 71:1-16, 1981.

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.