

Magic™ UltraLume ECL substrates

(Prod. No.: CDS-JXC02)

For research use only.

INTRODUCTION

Magic™ UltraLume ECL substrates is a ECL substrates solution enables highly sensitive detection of antigens through the oxidation of luminol in the presence of HRP and hydrogen peroxide. This reaction generates a stable and prolonged chemiluminescent signal, which can be detected via X-ray film or digital imaging systems.

KIT CONTENTS

| Cat. No | Components | Volume |
|-----------|------------|--------|
| CDS-JXC02 | Solution A | 500 mL |
| | Solution B | 500 mL |

KEY FEATURES

Exceptional Sensitivity: Low femtogram levels.

High Signal-to-Noise Ratio: Precision substrates reduce background noise, providing clear and high-quality signals.

Long-Lasting Luminescence: Optimized formulation provides sustained signal duration.

Exceptional Stability: Advanced oxidant stabilizer ensures long shelf life.

STORAGE AND STABILITY

Magic™ UltraLume ECL substrates solution can be stored at 4°C for 1 year, RT for 6 months.

PROTOCOL

1. After all the Western Blotting steps and ready for detection, place the blot with the protein side up in a clean container, keeping the membrane under moist with the wash buffer.
2. Mix Solution A and Solution B in a 1:1 ratio. 100-200 µL liquid /cm² membrane is recommended.
3. Incubate the blot for 2-3 minutes at room temperature.
4. After incubation, drain the excess substrate and place the blot in a plastic membrane protector to prevent the membrane from drying.
5. Remove all air bubbles between the blot and the surface of the membrane protector.
6. Visualize the blot using X-ray film or a CCD-based imaging system.

TROUBLESHOOTING

| Problem | Cause/Solution |
|---|--|
| White bands with a black background | Too much HRP used. Dilute HRP-conjugate further. |
| Weak or no signal or signal fades quickly | Inefficient protein transferred insufficient antibodies; low HRP activity. |
| High background | Too much HRP used; inappropriate blocking reagent; overexposed. |
| Nonspecific bands | Too much HRP-conjugate; poor antibody specificity. |