Magic™ SuperLume ECL substrates

(Prod. No.: CDS-JXC04

For research use only.

INTRODUCTION

Magic™ SuperLume 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-JXC04	Solution A	500 mL
	Solution B	500 mL

KEY FEATURES

Exceptional Sensitivity: Low picogram 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 extended shelf life.

STORAGE AND STABILITY

Magic™ SuperLume ECL substrates solution can be stored at 4°C for 2 year, RT for 12 months.

PROTOCOL

1. After all the Western Blotting steps and ready for detention, 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 /cm^2 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.

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