



AviChem™

Cat. No.: A12010

50 ml

Cat. No.: A12011

100 ml

Store at 4-8°C

Component	A12010	A12011
Solution A	25 ml	50 ml
Solution B	25 ml	50 ml

Description:

AviChem™ is recommended for use in horseradish peroxidase (HRP)-based Western Blotting procedures.

Provided as a two-component system, **AviChem™** contains Solution A and Solution B. In the presence of peroxidase, the reagent emits chemiluminescent light.

The chemiluminescent light emitting can be quantitatively detected via regular autoradiograph

film, CCD camera, or chemiluminescence reading device.

In immunoblotting procedure, this reagent kit offers a clean detection performance on PVDF and nitrocellulose membrane blots.

Kit storage:

AviChem™ should be stored at 4-8 °C and Shipped at ambient temperature.

This product is light-sensitive, should be protected from sunlight or UV light.

Applications:

Western Blotting.

Protocol:

1. Prepare **AviChem™** Working Solution by mixing equal parts 1:1 of the Substrate A and Substrate B.

Use 0.1 ml Working Solution per cm² of membrane or enough to ensure the entire blot is covered in solution.

Prepare working solution before use.

2. Incubate blot with **AviChem™** Working Solution for 2 min at RT.

3. Remove blot from **AviChem™** Working Solution and place it in a plastic membrane protector. A plastic sheet protector or plastic wrap may be used.

Use an absorbent tissue to remove excess liquid and to carefully press out any bubbles from between the blot and surface of the membrane protector.

Note: *Film must remain dry during exposure.*

4. Turn off all lights except those appropriate for film exposure (e.g., a red safelight).

Carefully place a piece of film on top of the wrapped membrane.

A recommended first exposure time is 60 seconds. Exposure time may be varied to achieve optimal results. Enhanced or pre-flashed film is not necessary. We normally use Hyperfilm™ –

ECL films (Amersham Life Science Inc.) and expose to the blots for 10 s, 1 min, 5 min, and 20 min to visualize the chemiluminescent signal corresponding to the specific antibody-antigen interaction.

If the signal is too intense, reduce exposure time or optimize the system by decreasing the antigen and/or antibody concentrations.

If using a CCD Camera longer exposure times may be necessary.

Blot may be stripped and reported if necessary.

Disclaimers:

AviChem™ is for **Research Use Only** and should only be used by trained professionals