

ProtoBlock™ System

**national
diagnostics**

Protein Blocking Solution to Eliminate
Endogenous Background in Immunoassays

INTRODUCTION

Western Blot immunoassay is a highly specific method of protein analysis using affinity-purified antibodies. An enzyme-linked affinity-purified antibody used in conjunction with highly sensitive chemiluminescent substrate provides an excellent method for detection and characterization of samples bound to membranes through Western Blot or Dot ELISA. Following transfer of proteins to a membrane, it is very important to block all available nonspecific binding sites to reduce background. ProtoBlock Solution is designed to

work optimally with Horseradish Peroxidase Luminescent labeling kit (HRPL Kit, National Diagnostics' Order No. CL-205). ProtoBlock Solution contains a broad spectrum of proteins, protein analogs, detergents, and buffers which are designed to minimize endogenous backgrounds. ProtoBlock Solution may be used for Western Blot, Southern Blot, Immunoassays, and *in situ* hybridization. It may be reconstituted and used according to the instructions provided.

SYSTEM COMPONENTS

The following reagents are supplied with this system:

1. ProtoBlock Reagent A, 100 grams
2. ProtoBlock Reagent B, 200 ml

- Primary or secondary antibodies are not provided.
- All system components may be stored at room temperature.
- Sufficient reagents are provided in the system to make 2000 ml of blocking solution.

PREPARING WORKING SOLUTIONS

1. To make 200 ml of ProtoBlock Solution add 10 grams of ProtoBlock Reagent A to 170 ml of deionized water. Mix well and add 20 ml of ProtoBlock Reagent B. This solution is used to block the membrane after protein transfer and to dilute the antibodies used in the immunoassays.
2. Store the remaining blocking solution at 4°C for future use. Reconstituted solution is stable at 4-8°C for one week.

ProtoBlock System

Order No. CL-252

1 Kit

For Ordering or Additional Information Contact National Diagnostics:

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