

A/B Block (Avidin/Biotin Blocking Solution)

<u>Cat No.</u>	<u>Quantity</u>
10-0039	15 mL Ready-To-Use

Intended Use

For In Vitro Diagnostic Use.

This product is intended for use in immunohistochemical (IHC) staining. This product inhibits nonspecific staining due to endogenous biotin during the IHC detection of antigens.

Reagents Supplied

Reagent A: One dropper bottle of 15 mL Ready-To-Use **Avidin Solution** in phosphate buffered saline (PBS) containing 0.09% w/v Sodium Azide (NaN₃).

Reagent B: One dropper bottle of 15 mL Ready-To-Use **Biotin Solution** in phosphate buffered saline (PBS) containing 0.09% w/v Sodium Azide (NaN₃).

Summary and Explanation

Endogenous biotin, which is widely distributed in tissues, often causes nonspecific staining by binding to avidin-based IHC reagents when using the avidin-biotin technique in IHC staining. This binding activity is most pronounced when using cryostat sections, and when heat-induced epitope retrieval techniques are used, but can be overcome by incubating with unconjugated avidin to block endogenous biotin. The incubation with avidin is followed by incubation with unconjugated biotin to block residual biotin-binding activity of the avidin molecule prior to use of an avidin-biotin IHC method.

Procedure

Before the application of the first reagent of the staining procedure:

1. Apply enough Reagent A to the tissue and incubate for 10 minutes at room temperature.
2. Rinse 3 times with 1X PBS.
3. Apply enough Reagent B to the tissue and incubate for 10 minutes at room temperature.
4. Rinse 3 times with 1X PBS.

Storage

Store at 2-8°C. Do not freeze.

All performance claims are void after the expiration date.

Materials Required But Not Supplied

1X PBS, Ready-to-use.

Precautions

For professional users only.

Sodium Azide (NaN₃) is a toxic chemical and is present as an antimicrobial agent. The concentration in this product is not classified as hazardous. However, the build-up of NaN₃ may react with lead and copper plumbing to form highly explosive metal azides. Flush any disposed reagent with large volumes of water to prevent azide build-up.

Symbols

 Catalog No.	 Batch No.	 In Vitro Diagnostic Use	 Temperature Range	 Use By
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