



HIGHDEF[®] substrate IHC chromogen (DAB, stable)

Catalog #: ADI-950-212

Liquid Format



Product Manual

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INTENDED USE

Substrate/chromogen in conjunction with peroxidase-based immunostaining systems.

INTRODUCTION

DAB, a widely used chromogen for immunoperoxidase staining, is well accepted among pathologists because of its increased sensitivity and ability to give cleaner background as compared to amino ethylcarbazole (AEC). Specimens stained in DAB can be dehydrated, cleared, and mounted for permanent record keeping. Stable DAB/Plus is more sensitive and stable than traditional working DAB solutions.

PRODUCT BENEFITS

HIGHDEF[®] substrate IHC chromogen (DAB, stable) offers several noteworthy improvements and benefits as compared with traditional working DAB solutions:

- i) HIGHDEF[®] substrate IHC chromogen (DAB, stable) is much more sensitive, providing the cost-effective option of diluting the primary antibody.
- ii) Being stable for 2 weeks (as opposed to 6 hours for traditional DAB working solutions), HIGHDEF[®] substrate IHC chromogen (DAB, stable) allows the user the convenience of making one working solution for the entire work week.
- iii) Hazardous waste generation from spent DAB solution is also significantly reduced.
- iv) HIGHDEF[®] substrate IHC chromogen (DAB, stable) is ideal for high volume labs and automated stainers.

PRINCIPLE

Peroxidase from the antibody detection system reacts with H₂O₂ substrate to degrade it, which then reacts with DAB, precipitating it at positive sites yielding a dark brown color.

KIT CONTENTS

1. 5 mL concentrated amber-colored HIGHDEF[®] substrate IHC chromogen (DAB, stable) chromogen solution.
2. 200 mL clear HIGHDEF[®] substrate IHC chromogen (DAB, stable) substrate buffer.
3. One empty mixing dropper bottle.

STORAGE

Store at 2-8°C. Reagents and working solution are light sensitive; protect from exposure to light. Store reagents and working solution in opaque bottle. Do not use beyond the expiration dates stated on the labels.

WORKING SOLUTION

Aliquot 1 mL of HIGHDEF[®] substrate IHC chromogen (DAB, stable) buffer in mixing bottle. Add 20 µL (one drop) of concentrated HIGHDEF[®] substrate IHC chromogen (DAB, stable) chromogen. Replace tip and mix.

Note: The working HIGHDEF[®] substrate IHC chromogen (DAB, stable) solution is stable for at least 2 weeks and should be prepared in an opaque bottle. Store at 2-8°C when not in use. Any solution not used after this period should be discarded.

PROCEDURE

- i) After peroxidase incubation, wash tissue sections with wash buffer.
- ii) Wipe slides removing excess buffer. Add enough drops of working HIGHDEF[®] substrate IHC chromogen (DAB, stable) solution to cover tissue sections.
- iii) Incubate for 5-10 minutes at room temperature. For optimal results, observe reaction under the microscope for signal development. Once the desired signal to noise ratio is achieved, stop the reaction by washing slides in buffer.

PRECAUTIONS

DAB, a suspected carcinogen, can cause skin irritation upon contact. Avoid contact with clothes and exposed skin. If contacted, flush immediately with tap water. Follow instructions provided by local authorities for disposal.

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