



HIGHDEF[®] substrate IHC chromogen (DAB, high contrast)

Catalog #: ADI-950-211

Liquid Format



Product Manual

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INTENDED USE

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

INTRODUCTION

3,3'-Diaminobenzidine (DAB), is a widely used chromogen for immunoperoxidase staining, and is well accepted among pathologists because of its increased sensitivity and decreased background when compared to amino ethylcarbazole (AEC). Specimens stained with DAB can be dehydrated, cleared, and permanently mounted. High Contrast DAB is more sensitive and stable than traditional working DAB solutions.

PRODUCT BENEFITS

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

- i) HIGHDEF[®] substrate IHC chromogen (DAB, high contrast) is highly sensitive, providing the cost-effective option of further 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, high contrast) allows the user the convenience of making one working solution for the entire week's work.
- iii) Hazardous waste generation from unused DAB solution is also significantly reduced.
- iv) HIGHDEF[®] substrate IHC chromogen (DAB, high contrast) is ideal for high volume labs and automated stainers.
- v) HIGHDEF[®] substrate IHC chromogen (DAB, high contrast) stains dark chocolate brown and is easy to distinguish between other chromogens such as our red and blue chromogen series when multiple chromogens are used on a single slide.

PRINCIPLE

In the presence of hydrogen peroxide, DAB is converted to an insoluble brown reaction product and water by the enzyme horseradish peroxidase (HRP).

KIT CONTENTS

- i) 5 mL concentrated dark purple-colored HIGHDEF[®] substrate IHC chromogen (DAB, high contrast) chromogen solution.
- ii) 200 mL clear HIGHDEF[®] substrate IHC chromogen (DAB, high contrast) substrate buffer.

- iii) 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 bottles. Do not use beyond the expiration dates stated on the labels.

WORKING SOLUTION

Aliquot 1 mL of HIGHDEF® substrate IHC chromogen (DAB, high contrast) Buffer in mixing bottle. Add 20 µL (one drop) of concentrated HIGHDEF® substrate IHC chromogen (DAB, high contrast) chromogen. Replace tip and mix.

Note: The working HIGHDEF® substrate IHC chromogen (DAB, high contrast) solution is stable for at least 1 week 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.

NOTE: *For best results, use freshly prepared working solution.*

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, high contrast) 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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