

DAB Chromogen/Substrate Kit: Tablet Format

- Catalog No.:** K 001
- Intended Use:** As a substrate/chromogen in conjunction with peroxidase-based immunostaining systems.
- Introduction:** DAB is a chromogen of choice when performing immunoperoxidase staining. It has been well accepted by the pathologist because of its superior performance as compared to amino ethylcarbazole (AEC). DAB is much more sensitive and gives cleaner background as opposed to AEC. Specimens stained in DAB can be dehydrated in ethanol, cleared in xylene, and mounted for permanent record keeping. However, because of its carcinogenic nature, some labs avoid handling DAB powder. To resolve this problem, we have designed DAB in tablet form to minimize the exposure of DAB particles to the lab personnel.
- Principle:** Peroxidase reacts with substrate 3% Hydrogen Peroxide to degrade it, which in turn reacts with DAB to precipitate it at positive sites giving a dark brown color.
- Components:**
- i) 20 tablets of buffered DAB chromogen.
 - ii) 1mL of 3% Hydrogen Peroxide Substrate.
- Storage:**
- DAB Chromogen Tablets:* Store frozen. Keep dry. Avoid exposure to moisture and light. Warm to room temperature before using. Do not use beyond the expiration date stated on the label.
- 3% Hydrogen Peroxide Substrate:* Store at 2-8°C. Product is light-sensitive; protect from exposure to light and store in opaque bottle or in dark environment. Do not use beyond the expiration date stated on the label.
- Working Solution:**
- Note: Working chromogen solution is stable for 2 hours. Any solution not used after this period should be discarded.*
- i) Place 5mL of distilled or de-ionized water in a test tube.
 - ii) Add one DAB tablet. Let sit for one minute then shake the tube to dissolve the tablet.
 - iii) Add one drop of 3% Hydrogen Peroxide Substrate and mix.
- Procedure:**
- i) Once tissue sections have been incubated with Peroxidase, wash them thoroughly with buffer.
 - ii) Wipe slides to remove excess buffer and add enough drops of the working DAB solution to cover the tissue section.
 - iii) Incubate for 2-5 minutes at room temperature. For the best results look under the microscope for the signal development. Once desired signal to noise ratio is achieved, stop the reaction by washing slides in wash buffer.
- Precautions:** DAB has been classified as suspected carcinogen and can cause skin, eye, and respiratory tract irritation. Wear personal protective equipment when handling this product and avoid contact with clothes and exposed skin. During disposition, avoid creating, place in bag, and hold for waste disposal; ventilate area and wash spill site after disposal.

IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

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