

DAB Chromogen/Substrate Bulk Pack

Description: 3,3'Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate. The standard working dilution is 50 μ L (0.9mg) of DAB Chromogen per 1mL of DAB Substrate, although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders (i.e. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, making it ideal for automated stainers.

Availability:

<u>Item #</u>	<u>Volume</u>
ACK500	30ml DAB Chromogen 500ml DAB Substrate
ACK999	60ml DAB Chromogen 1000ml DAB Substrate

Storage: DAB: Store at 2-8°C. Each component is stable for 18 months from the date of manufacture.
DAB Enhancer: Store at room temperature. Stable for 12 months from the date of manufacture.

Procedure:

1. Combine 50 μ L of DAB Chromogen with each 1mL of DAB Substrate (range = 50-80 μ L, 50 μ L/mL produces standard sensitivity, 80 μ L/mL produces maximum sensitivity). Optional: for additional sensitivity, add 20 μ L of DAB Enhancer to each 1 mL of substrate.
2. Apply mixture to tissue section.
3. Incubate tissue section for 5-15 minutes.
4. Rinse tissue, counterstain, dehydrate, clear in xylene or xylene substitute and coverslip.

Precautions: DAB Chromogen: Contains Diaminobenzidine in buffer. DAB is a suspected carcinogen. Do not pipette by mouth. Avoid contact with skin and eyes. Reagent is acidic and can cause burns if skin contact occurs. Handle with care and dispose of according to regulations. When transferring large volumes of chromogen, do not use serological pipettes, instead use glass or HDPE.

DAB Substrate: Contains Hydrogen Peroxide in buffer. Avoid contact with skin and eyes.