

DAB-Ni Substrate Kit (20x) for Immunohistochemistry

(Nickel Enhanced 3,3'-Diaminobenzidine Tetrahydrochloride Substrate kit for HRP)

Cat # NB-23-00151

Size: 12ml for 2400 slides

Intended Use

DAB (3,3'-Diaminobenzidine) is one of the most commonly used precipitating substrates for peroxidase. Our DAB-Ni substrate Kit is a nickel chloride enhanced DAB system with increased sensitivity and contrast compared to standard DAB. DAB-Ni will develop a black colored deposit upon reacting with peroxidase. The DAB-Ni Substrate Kit requires 5 minutes incubation on slides in an enclosed chamber at room temperature. The color development may be carefully monitored under a microscope. After the appropriate color is observed, gently rinse the slides under tap water for 1-2 minutes to remove excess DAB-Ni substrate. The specimen may be counterstained, dehydrated and permanently mounted (NeoBio Mount Perm, catalog # NB-23-00156) before cover-slipping. All four components in the DAB-Ni kit are provided in concentrated form, which gives laboratories the advantage of easy storage and less shipping cost.

Kit Components

Reagent 1	DAB substrate buffer (20x)	12ml
Reagent 2	DAB Chromogen (20x)	12ml
Reagent 3	Hydrogen peroxide (20x)	12ml
Reagent 2	Nickel Solution (10x)	24ml

Recommended Protocol

1. Prepare 1ml of distilled water. Add 1 drop of DAB substrate (Reagent 1) into 1ml of distilled water. Mix well.
2. Add 1 drop of DAB Chromogen (Reagent 2) and 1 drop of concentrated Hydrogen Peroxide (Reagent 3) to the diluted Reagent. Mix well.
3. Add 2 drops of Nickel Solution (Reagent 4) to the mixture. Mix well.
4. Add about 100µl (2 drops) of the pre-diluted DAB-Ni mixture to each slide and incubate in an enclosed chamber at room temperature for about 5 minutes. When appropriate color is developed, rinse under tap water gently for about 1-2 minutes.
5. Keep away from light during operation and use the prepared DAB-Ni mixture within 5 hours.

Precaution

DAB nickel chloride may be carcinogenic. Please wear gloves and take other necessary precautions, such as eye protection, lab coat, and good laboratory procedures. Dispose in accordance with local regulations.

Storage

Store at 2-8°C. Do not freeze.

Related Products

Product	Catalog No.	Size
DAB Kit (20x Concentrate)	NB-23-00141-1 / -2	100ml / 12ml
DAB+ Kit (2-component)	NB-23-00148-1 / -2	12ml +240ml / 100ml +2L
AEC kit (20x concentrate)	NB-23-00140	12ml
Fast Red Kit	NB-23-00142	60ml
AP-Red+ Kit (40x concentrate)	NB-23-00143	8ml
BCIP/NBT Kit (RTU)	NB-23-00144-1 / -2	100ml / 18ml
NeoBio Mount AQ	NB-23-00155-3	18ml
NeoBio Mount Perm	NB-23-00156	18ml
NeoBio Mount Universal (Aqueous)	NB-23-00157-1 / -2	100ml / 18ml
NeoBio Mount ISH	NB-23-00161-1	100ml
NeoBio Mount Fluo	NB-23-00158-1 / -2	100ml / 18ml
NeoBio Mount Fluo with DAPI	NB-23-00159-1 / -2	100ml / 18ml
NeoBio Mount Fluo with PI	NB-23-00160-1 / -2	100ml / 18ml

For reference only

For Research Use Only. Not for Diagnostic or Therapeutic Use.