

Liquid DAB Substrate Kit (20x) for Immunohistochemistry

(3,3'-Diaminobenzidine Tetrahydrochloride Substrate kit for Horseradish Peroxidase)

Cat # NB-23-00141-1

Size: 100ml for 20,000 slides

Cat # NB-23-00141-2

Size: 12ml for 2400 slides

Intended Use

3,3'-Diaminobenzidine (DAB) is the most commonly used precipitating substrate for peroxidase. DAB substrate will develop a brown colored deposit upon reacting with peroxidase. DAB incubation on slides is about 5 minutes 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 substrate. The specimen may be dehydrated and permanently mounted (NeoBio Mount Perm, catalog # NB-23-00156) before coverslip. All three components in DAB kit are provided in 20X concentrated form, which gives laboratories the advantage of easy storage and less shipping cost.

Kit Components

Reagent 1	DAB substrate buffer (20x)	12ml (2400 slides) / 100ml (20,000 slides)
Reagent 2	Chromogen (20x)	12ml (2400 slides) / 100ml (20,000 slides)
Reagent 3	Hydrogen peroxide (20X)	12ml (2400 slides) / 100ml (20,000 slides)

Recommended Protocol

1. Prepared a 1ml of distilled water. Adding 1 drop of DAB substrate buffer (Reagent 1) in 1ml of distilled water. Mix well.
2. Add 1 drops of DAB Chromogen (Reagent 2) and 1 drop of concentrated Hydrogen Peroxide (Reagent 3) to the diluted Reagent 1. Mix well.
3. Add about 100ul (2 drops) of the pre-diluted DAB mixture on to the slides and incubate in an enclosed chamber at room temperature about 5 minutes. When appropriate color is developed, rinse under tap water gently for about 1-2 minutes.
4. Keep away from light during operation and use the prepared DAB solution within 5 hours.

Precaution

DAB may be carcinogenic. Please wear gloves and take other necessary precautions.

Storage

Store at 2-8°C. Do not freeze.

Related Products

Product	Catalog No.	Size
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.